



**AIR QUALITY
TIER I OPERATING PERMIT**

State of Idaho
Department of Environmental Quality

PERMIT NO.: 005-00004

AQCR: 61

CLASS: A

SIC: 3241

ZONE: 12

UTM COORDINATE (km): 397.6 , 4738.6

1. **PERMITTEE**
Ash Grove Cement Co.

2. **PROJECT**
Tier I Operating Permit

3. **MAILING ADDRESS**
230 Cement Road

CITY
Inkom

STATE
ID

ZIP
83245

4. **FACILITY CONTACT**
Craig Puljan

TITLE
Plant Manager

TELEPHONE
(208) 775-3351 ext. 12

5. **RESPONSIBLE OFFICIAL**
Craig Puljan

TITLE
Plant Manager

TELEPHONE
(208) 775-3351 ext. 12

6. **EXACT PLANT LOCATION**
Township 7S, Range 36, Section 28

COUNTY
Bannock

7. **GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS**
Portland cement manufacture

8. **PERMIT AUTHORITY**

This Tier I operating permit is issued pursuant to Idaho Code §39-115 and the *Rules for the Control of Air Pollution in Idaho*, IDAPA 58.01.01.300 - 386. The permittee shall comply with the terms and conditions of this permit.

This permit incorporates all applicable terms and conditions of prior air quality permits issued by the Idaho Department of Environmental Quality for the permitted source, unless the permittee emits toxic pollutants subject to state-only requirements pursuant to IDAPA 58.01.01.210, and the permittee elects not to incorporate those terms and conditions into this operating permit.

The effective date of this permit is the date of signature by the Department on the cover page.


KATHERINE B. KELLY, ADMINISTRATOR, AIR QUALITY DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

DATE ISSUED: December 17, 2002

DATE EXPIRES: December 17, 2007

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ACRONYMS, UNITS, AND CHEMICAL NOMENCLATURE

AGC	Ash Grove Cement
ASTM	American Society for Testing and Materials
AQCR	Air Quality Control Region
CEMS	Continuous Emissions Monitoring System
CFR	Code of Federal Regulations
CKD	cement kiln dust
CO	carbon monoxide
Department	Department of Environmental Quality
DRE	destruction and removal efficiency
dscf	dry standard cubic feet
dscfm	dry standard cubic feet per minute
EPA	U.S. Environmental Protection Agency
ESP	electrostatic precipitator
gr	grain (1 lb = 7,000 grains)
HAPS	hazardous air pollutants
IDAPA	A numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
km	kilometer
lb/hr	pound(s) per hour
LPG	liquefied petroleum gas
MACT	Maximum Achievable Control Technology
MgO	magnesium oxide
MMBtu	million British thermal units
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NO _x	nitrogen oxides
NSPS	New Source Performance Standards
Pb	lead
PM	particulate matter
PM ₁₀	particulate matter with an aerodynamic diameter less than or equal to 10 micrometers
PSD	Prevention of Significant Deterioration
PTC	permit to construct
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO ₂	sulfur dioxide
T/hr	ton(s) per hour
U.S.C.	United States Code
UTM	Universal Transverse Mercator
VOC	volatile organic compound

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Location: Inkom, Idaho**Project No.** T1-9508-132-1**Date Issued:** December 17, 2002
Date Expires: December 17, 2007*The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.***1. TIER I OPERATING PERMIT SCOPE****Purpose**

- 1.1 This Tier I operating permit establishes facility-wide requirements in accordance with the State Implementation Plan control strategy and the *Rules for the Control of Air Pollution in Idaho*.
- 1.2 This Tier I operating permit incorporates the following permits:
- Tier II Operating Permit No. 005-00004; PM₁₀ SIP Operating Permit, issued December 8, 1997 and pending modifications to the Tier II permit.
 - PTC No.005-00004, No. 1 and No. 2 Clinker Coolers and Clinker Handling System, and Clinker Reclaim, issued January 29, 1999.
 - PTC No. 005-00004, Dust Scoop System, Kiln No. 1, issued May 17, 1999.
- 1.3 This Tier I operating permit incorporates requirements from the consent order dated June 10, 2002.

Regulated Sources

- 1.4 Table 1.1 lists all sources of regulated emissions in this Tier I operating permit.

Table 1.1 EMISSIONS SOURCES

Permit Conditions	Source Description	Emissions Control(s)
3	Drilling, blasting, and dozing	Partially controlled, drill includes a cyclone
4	Quarried raw materials receiving, crushing, and storage	Enclosure or water spray
5	Iron ore receiving, crushing, and storage	Enclosure or water spray
6	Silica receiving, crushing, and storage	Enclosure or water spray
7	Gypsum receiving, crushing, and storage	Enclosure or water spray
8	Storage piles	Uncontrolled
9	Silo withdrawal, conveying, and storage	Enclosure
10	No. 1 and No. 2 rotary kilns	High temperature combustion, multiclone, and electrostatic precipitator
11	No. 1 and No. 2 clinker coolers and clinker handling system	Enclosure and baghouses
12	Clinker reclaim	Enclosure and baghouses
13	Finish grinding and associated handling	Enclosure and baghouses
14	Cement loadout	Enclosure and baghouses
15	Coal handling	Partial enclosure
16	Cement kiln dust handling	Enclosure
17	Unpaved roads	Water spray
18	Paved roads	Sweeping

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Table 2.1 contains a summary of requirements that apply generally to emissions units at the facility.

Table 2.1 FACILITY-WIDE APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Parameter	Permit Limits/ Standard Summary	Applicable Requirements Reference	Monitoring & Recordkeeping Requirements
2.1	Fugitive emissions	Reasonable precautions	IDAPA 58.01.01.650-651	2.2, 2.3, 2.4, 2.11
2.5	Odorous gas, liquids or solids	No emissions that cause air pollution	IDAPA 58.01.01.775-776	2.6, 2.11
2.7	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	IDAPA 58.01.01.625	2.8, 2.11
2.9	Excess emissions	Compliance with IDAPA 58.01.01.130-136	IDAPA 58.01.01.130	2.10, 2.11
2.12	Open burning	In accordance with IDAPA 58.01.01.600-616	IDAPA 58.01.01.600-616	2.11
2.13	Asbestos	Compliance with 40 CFR 61 Subpart M	40 CFR 61 Subpart M	2.11
2.14	Risk management plan	Compliance with 40 CFR 68.215(a)(2)	40 CFR 68.215(a)(2); IDAPA 58.01.01.322.11; 40 CFR 70.6(c)(5)	2.11
2.15	Air quality standards	Test methods	IDAPA 58.01.01.157	2.11, 2.16
2.16	PM ₁₀ , PM, NO _x , SO ₂ , CO, VOC, opacity	Compliance testing	IDAPA 58.01.01.157	2.11, 2.15
2.17	Fuel sulfur content	ASTM Grade 1 fuel oil - 0.3% by weight ASTM Grade 2 fuel oil - 0.5% by weight Residual fuel oil – 1.75% by weight Coal – 1% by weight	IDAPA 58.01.01.728	2.11, 2.18, 2.19
2.20	Recycling and emission reduction	Reduce emissions of Class I and Class II refrigerants in accordance with 40 CFR 82 Subpart F	40 CFR 82, Subpart F	2.11
2.21	Baghouses	Visible emissions	Consent Order, June 10, 2002	2.22, 2.23, 2.24
2.25	Water spray log	Maintain	Consent Order, June 10, 2002	2.11

Fugitive Emissions

2.1 All reasonable precautions shall be taken to prevent PM from becoming airborne in accordance with

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IDAPA 58.01.01.650-651.

[IDAPA 58.01.01.650-651, 5/1/94]

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- 2.2 The permittee shall monitor and maintain records of the frequency and the method(s) used (i.e., water, chemical dust suppressants, etc.) to reasonably control fugitive emissions.
[IDAPA 58.01.01.322.06, 07, 5/1/94]
- 2.3 The permittee shall maintain records of all fugitive dust complaints received. The permittee shall take appropriate corrective action as expeditiously as practicable after receipt of a valid complaint. The records shall include, at a minimum, the date each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.
[IDAPA 58.01.01.322.06, 07, 5/1/94]
- 2.4 The permittee shall conduct a weekly facility-wide inspection of potential sources of fugitive emissions listed in Appendix F during daylight hours and under normal operating conditions, to ensure that the methods used to reasonably control fugitive emissions are effective. If fugitive emissions are not being reasonably controlled, the permittee shall take corrective action as expeditiously as practicable. The permittee shall maintain records of the results of each weekly fugitive emissions inspection. The records shall include, at a minimum, the date of each inspection and a description of the following: the permittee's assessment of the conditions existing at the time fugitive emissions were present (if observed), any corrective action taken in response to the fugitive emissions, and the date the corrective action was taken.
[IDAPA 58.01.01.322.06, 07, 5/1/94; IDAPA 58.01.01.322.08, 4/5/00]

Odors

- 2.5 No person shall allow, suffer, cause, or permit the emissions of odorous gases, liquids, or solids to the atmosphere in such quantities as to cause air pollution.
[IDAPA 58.01.01.775-776, 5/1/94]
- 2.6 The permittee shall take appropriate corrective action as expeditiously as practicable. The records shall include, at a minimum, the date each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.
[IDAPA 58.01.01.322.06, 07 (state-only), 5/1/94]

Visible Emissions

- 2.7 No person shall discharge any air pollutant to the atmosphere from any point of emissions for a period or periods aggregating more than three minutes in any 60-minute period which is greater than 20% opacity as determined by procedures contained in IDAPA 58.01.01.625. These provisions shall not apply when the presence of uncombined water, nitrogen oxides, and/or chlorine gas are the only reason(s) for the failure of the emissions to comply with the requirements of this section.
[IDAPA 58.01.01.625, 4/5/00]
- 2.8 The permittee shall conduct a weekly facility-wide inspection of potential sources of visible emissions listed in Appendix G during daylight hours and under normal operating conditions. The visible emissions inspection shall consist of a see/no see evaluation for each potential source. If any visible emissions are present from any point of emissions, the permittee shall either take appropriate corrective action as expeditiously as practicable, or perform a Method 9 opacity test in accordance with the procedures outlined in IDAPA 58.01.01.625. A minimum of 30 observations shall be recorded when conducting the opacity test. If opacity is greater than 20% for a period or periods aggregating more than three minutes

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in any 60-minute period, the permittee shall take all necessary corrective action and report the exceedance in its annual compliance certification and in accordance with IDAPA 58.01.01.130-136. The permittee shall maintain records of the results of each weekly visible emissions inspection and each opacity test when conducted. The records shall include, at a minimum, the date and results of each inspection and test and a description of the following: the permittee's assessment of the conditions existing at the time visible emissions are present (if observed), any corrective action taken in response to the visible emissions, and the date corrective action was taken.

[IDAPA 58.01.01.322.06, 07, 5/1/94; IDAPA 58.01.01.322.08, 4/5/00]

Excess Emissions

2.9 The permittee shall comply with the procedures and requirements of IDAPA 58.01.01.130-136 for excess emissions. The provisions of IDAPA 58.01.01.130-136 shall govern in the event of conflicts between the subsections of Permit Condition 2.9 and the requirements of IDAPA 58.01.01.130-136.

2.9.1 The person responsible for or in charge of a facility during an excess emissions event shall, with all practicable speed, initiate and complete appropriate and reasonable action to correct the conditions causing such excess emissions event; to reduce the frequency of occurrence of such events; to minimize the amount by which the emissions standard is exceeded; and shall, as provided below or upon request of the Department, submit a full report of such occurrence, including a statement of all known causes and of the scheduling and nature of the actions to be taken.

[IDAPA 58.01.01.132, 4/5/00]

2.9.2 In all cases where startup, shutdown, or scheduled maintenance of any equipment or emissions unit is expected to result or results in an excess emissions event, the owner or operator of the facility or emissions unit generating the excess emissions shall demonstrate compliance with IDAPA 58.01.01.133.01(a) through (d), including, but not limited to the following address:

[IDAPA 58.01.01.133, 4/5/00]

2.9.2.1 A prohibition of any scheduled startup, shutdown, or maintenance resulting in excess emissions shall occur during any period in which an Atmospheric Stagnation Advisory and/or a Wood Stove Curtailment Advisory has been declared by the Department.

[IDAPA 58.01.01.133.01.a, 3/20/97]

2.9.2.2 Notifying the Department of any startup, shutdown or scheduled maintenance event that is expected to cause an excess emissions event as soon as reasonably possible, but no later than two hours prior to the start of the excess emissions event, unless the owner or operator demonstrates to the Department's satisfaction that a shorter advanced notice was necessary.

[IDAPA 58.01.01.133.01.b, 4/5/00]

2.9.2.3 The owner or operator of a source of excess emissions shall report and record the information required pursuant to Permit Condition 2.9.4 and 2.9.5 and IDAPA 58.01.01.135 and 136 for each excess emissions event due to startup, shutdown, or scheduled maintenance.

[IDAPA 58.01.01.133.01.c, 3/20/97]

2.9.3 In all cases where upset or breakdown of equipment or an emissions unit, or the initiation of safety measures, results or may result in an excess emissions event, the owner or operator of the facility or emissions unit generating the excess emissions shall demonstrate compliance with IDAPA 58.01.01.134.01(a) and (b) and the following:

[IDAPA 58.01.01.134, 4/5/00]

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- 2.9.3.1 For all equipment or emissions units from which excess emissions result during upset or breakdown conditions, or for other situations that may necessitate the implementation of safety measures which cause excess emissions, the facility owner or operator shall comply with the following:
[IDAPA 58.01.01.134.02, 4/5/00]
- The owner or operator shall immediately undertake all appropriate measures to reduce and, to the extent possible, eliminate excess emissions resulting from the event and to minimize the impact of such excess emissions on the ambient air quality and public health.
[IDAPA 58.01.01.134.02.a, 4/5/00]
 - The owner or operator shall notify the Department of any upset, breakdown, or safety event that results in excess emissions. Such notification shall identify the time, specific location, equipment or emissions unit involved, and (to the extent known) the cause(s) of the occurrence. The notification shall be given as soon as reasonably possible, but no later than 24 hours after the event, unless the owner or operator demonstrates to the Department's satisfaction that the longer reporting period was necessary.
[IDAPA 58.01.01.134.02.b, 4/5/00]
 - The owner or operator shall report and record the information required pursuant to Permit Conditions 2.9.4 and 2.9.5 and IDAPA 58.01.01.135 and 136 for each excess emissions event caused by an upset, breakdown, or safety measure.
[IDAPA 58.01.01.134.02.c, 3/20/97]
- 2.9.3.2 During any period of excess emissions caused by upset, breakdown, or operation under facility safety measures, the Department may require the owner or operator to immediately reduce or cease operation of the equipment or emissions unit causing the period until such time as the condition causing the excess has been corrected or brought under control. Such action by the Department shall be taken upon consideration of the factors listed in IDAPA 58.01.01.134.03 and after consultation with the facility owner or operator.
[IDAPA 58.01.01.134.03 4/5/00]
- 2.9.4 A written report for each excess emissions event shall be submitted to the Department by the owner or operator no later than 15 days after the beginning of such an event. Each report shall contain the information specified in IDAPA 58.01.01.135.02.
[IDAPA 58.01.01.135.01, 3/20/97; IDAPA 58.01.01.135.02, 4/5/00]
- 2.9.5 The owner or operator shall maintain excess emissions records at the facility for the most recent five-calendar-year period. These records shall be made available to the Department upon request. The excess emissions records shall include the information requested by IDAPA 58.01.01.136.03(a) and (b) as summarized in the following:
[IDAPA 58.01.01.136.01, 02, 3/20/97; IDAPA 58.01.01.136.03, 4/5/00]
- 2.9.5.1 An excess emissions record book for each emissions unit or piece of equipment containing copies of all reports that have been submitted to the Department pursuant to IDAPA 58.01.01.135 for the particular emissions unit or equipment.
[IDAPA 58.01.01.136.03.a, 4/5/00]

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- 2.9.5.2 Copies of all startup, shutdown, and scheduled maintenance procedures and upset, breakdown, and safety preventative maintenance plans that have been developed by the owner or operator in accordance with IDAPA 58.01.01.133 and 134, and facility records as necessary to demonstrate compliance with such procedures and plans.

[IDAPA 58.01.01.136.03.b, 3/20/97; IDAPA 58.01.01.130-136, 4/5/00
(state-only; federally enforceable upon approval into the SIP); IDAPA 58.01.01.322.08.b, 3/23/98]

Reports and Certifications

- 2.10 All periodic reports and certifications required by this permit shall be submitted to the Department within 30 days of the end of each specified reporting period. Excess emissions reports and notifications shall be submitted in accordance with IDAPA 58.01.01.130-136. Reports, certifications, and notifications shall be submitted to the following address:

Air Quality Permit Compliance
Department of Environmental Quality
Pocatello Regional Office
444 Hospital Way, Suite 300
Pocatello, ID 83201
Phone: (208) 236-6160 Fax: (208) 236-6168

The periodic compliance certification required by General Provision 21 shall also be submitted within 30 days of the end of the specified reporting period to the following address:

EPA Region 10
Air Operating Permits, OAQ-107
1200 Sixth Ave.
Seattle, WA 98101

[IDAPA 58.01.01.322.08, 11, 5/1/94]

Monitoring and Recordkeeping

- 2.11 The permittee shall maintain sufficient recordkeeping to assure compliance with all of the terms and conditions of this operating permit. Records of monitoring information shall include, but not be limited to the following address: (a) the date, place, and times of sampling or measurements; (b) the date analyses were performed; (c) the company or entity that performed the analyses; (d) the analytical techniques or methods used; (e) the results of such analyses; and (f) the operating conditions existing at the time of sampling or measurement. All monitoring records and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes, but is not limited to, all calibration and maintenance records, all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. All records required to be maintained by this permit shall be made available in either hard copy or electronic format to Department representatives upon request.

[IDAPA 58.01.01.322.07, 5/1/94]

Open Burning

- 2.12 The permittee shall comply with the requirements of IDAPA 58.01.01.600-616, *Rules for Control of Open Burning*.

[IDAPA 58.01.01.600-616, 5/1/94]

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- 2.13 The permittee shall comply with all applicable portions of 40 CFR 61, Subpart M when conducting any renovation or demolition activities at the facility.

[40 CFR 61, Subpart M]**Regulated Substances for Accidental Release Prevention**

- 2.14 An owner or operator of a stationary source that has more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, shall comply with the requirements of the Chemical Accident Prevention Provisions at 40 CFR Part 68 no later than the latest of the following dates:
- Three years after the date on which a regulated substance present above a threshold quantity is first listed under 40 CFR 68.130.
 - The date on which a regulated substance is first present above a threshold quantity in a process.

[40 CFR 68.10 (a)]**Test Methods**

- 2.15 If testing is required, the permittee shall use the test methods described in Table 2.2 to measure the pollutant emissions.

Table 2.2 EPA REFERENCE TEST METHODS

Pollutants	Test Methods*	Special Conditions
PM ₁₀	EPA Method 201.a EPA Method 202	
PM	EPA Method 5	
NO _x	EPA Method 7	
SO ₂	EPA Method 6	
CO	EPA Method 10	
VOC	EPA Method 25	
Opacity	EPA Method 9	If an NSPS source, IDAPA 58.01.01.625 and Method 9; otherwise, IDAPA 58.01.01.625 only.
Total Organic HAPs	EPA Method 25A	Total emissions are assumed to be one HAP.
Benzo(a)pyrene	EPA Method TO-14*	
Dioxin/Furan	EPA Method 23	
Lead	EPA Method 29	

* Or Department-approved alternative in accordance with IDAPA 58.01.01.157

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[IDAPA 58.01.01.322.09, 5/1/94]

Compliance Testing

- 2.16 If testing is required, the permittee shall provide notice of intent to test to the Department at least 15 days prior to the scheduled test or shorter time period as provided in a permit, order, consent decree, or by Department approval. The Department may, at its option, have an observer present at any emissions tests conducted on a source. The Department requests such testing not be performed on weekends or state holidays.

All testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior Department approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written approval by the Department for any testing deviations, the Department may determine that the testing does not satisfy the testing requirements. Therefore, prior to conducting any compliance test, the permittee is strongly encouraged to submit in writing to the Department, at least 30 days in advance, the following for approval:

- The type of test method to be used
- Any extenuating or unusual circumstances regarding the proposed test
- The proposed schedule for conducting and reporting the test

The permittee shall submit a compliance test report for the respective test to the Department within 30 days following the date on which a compliance test required by this permit is concluded. The compliance test report shall include all process operating data collected during the test period as well as the test results, raw test data, and associated documentation, including any approved test protocol.

The proposed test date(s), test date rescheduling notice(s), compliance test report, and all other correspondence shall be sent to the following address:

Air Quality Permit Compliance
Department of Environmental Quality
Pocatello Regional Office
444 Hospital Way Suite 300
Pocatello, ID 83201
Phone: (208) 236-6160

Fax: (208) 236-6168

[IDAPA 58.01.01.157, 4/5/00; IDAPA 58.01.01.322.06, 08.a, 09, 5/1/94]

Sulfur Content

- 2.17 No person shall sell, distribute, use or make available for use, any residual fuel oil containing more than 1.75% sulfur by weight.

[IDAPA 58.01.01.727.02, 5/1/94]

- 2.18 No person shall sell, distribute, use, or make available for use any distillate fuel oil containing more than the following percentages of sulfur:

- ASTM Grade 1 fuel oil - 0.3% by weight.
- ASTM Grade 2 fuel oil - 0.5% by weight.

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[IDAPA 58.01.01.728, 5/1/94]

- 2.19 No person shall sell, distribute, use or make available for use, any coal containing greater than 1% sulfur by weight.

[IDAPA 58.01.01.729, 5/1/94]

- 2.20 The permittee shall maintain documentation of supplier verification of distillate fuel oil sulfur content, residual fuel oil sulfur content, and coal sulfur content on an as-received basis.

[IDAPA 58.01.01.322.07, 5/1/94]

Recycling and Emissions Reductions

- 2.21 The permittee shall comply with applicable standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, Recycling and Emissions Reduction.

[40 CFR 82, Subpart F]

Baghouse Requirements

- 2.22 The permittee shall perform a one-minute daily visible emissions inspection using EPA Method 22 (contained in 40 CFR Part 60) on each baghouse located at the facility. Each daily visible emissions inspection shall be performed to determine whether visible emissions are present either at the baghouse stack outlet or the baghouse structure itself. If visible emissions are observed at the baghouse stack outlet, Ash Grove shall then perform a six-minute visible emissions observation using the test methods and procedures specified in IDAPA 58.01.01.625.04.

[Consent Order, Condition 13, 6/10/02]

- 2.23 The permittee shall perform corrective maintenance within 48 hours of observing any visible emissions from any baghouse stack or baghouse structure.

[Consent Order, Condition 14, 6/10/02]

- 2.24 The permittee shall submit for Department approval a copy of the daily log sheet to be used to record visible emissions observation and maintenance information for each of the baghouses. The daily log for each of the baghouses shall include the following:

- 2.24.1 The results of the daily visible emissions inspections, observations, and an attached six-minute visible emissions observation form for any visible emissions observations performed pursuant to Permit Condition 2.22.

- 2.24.2 The time and date when any maintenance was performed in response to a visible emissions inspection or observation.

- 2.24.3 A description of any specific problems that caused any visible emissions.

- 2.24.4 A description of any specific maintenance that was performed on the baghouse to sufficiently reduce or eliminate the visible emissions, or an explanation of why no maintenance was necessary.

- 2.24.5 If corrective maintenance was performed more than 48 hours after detection of visible emissions from a baghouse, the log shall include a description of the specific reason the maintenance was not performed sooner.

[Consent Order, Condition 15, 6/10/02]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee: Ash Grove Cement Co.
Location: Inkom, Idaho

Project No. T1-9508-132-1

Date Issued: December 17, 2002
Date Expires: December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee: Ash Grove Cement Co.
Location: Inkom, Idaho

Project No. T1-9508-132-1

Date Issued: December 17, 2002
Date Expires: December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

Dust Collector Maintenance Plan

- 2.25 The permittee shall operate and maintain the baghouses at the facility in accordance with the Dust Collector Maintenance Plan. The plan is provided in Appendix E. The plan specifies pressure drop ranges for operation of the baghouses at the facility. The plan is a condition of operation of the facility. The content of the plan may only be modified with written approval of the Department. Modifications of the plan shall not require modification of this permit and any approved modification of the plan shall become a condition of this permit as though fully incorporated therein. Noncompliance with the pressure drop ranges set forth in the plan shall be deemed a violation of this permit. Ash Grove shall, at all times, maintain documentation showing compliance with the pressure drop ranges set forth in the plan and shall make such documentation available to the Department upon request.

[Consent Order, Condition 17, 6/10/02]

Water Spray Log

- 2.26 The permittee shall use the daily log sheet, attached as Appendix D, or any other Department approved form, to record hours of operation of the water sprays for specific areas of the plant. The permittee shall maintain the records onsite and may maintain the records in electronic format.

[Consent Order, Condition 18, 6/10/02]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004**Permittee:** Ash Grove Cement Co.
Location: Inkom, Idaho**Project No.** T1-9508-132-1**Date Issued:** December 17, 2002
Date Expires: December 17, 2007*The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.***3. DRILLING, BLASTING, AND DOZING*****Summary Description***

The following is a narrative description of the drilling, blasting, and dozing emissions regulated in this Tier I operating permit. This description is for informational purposes only.

Holes are drilled into limestone for the placement of explosives. The explosives are detonated, and the blast loosens the rock so that a dozer can move the blasted material. Emissions associated with the drilling, blasting, and dozing of limestone are uncontrolled.

Table 3.1 describes the devices used to control drilling, blasting, and dozing emissions.

Table 3.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Source Code	Emissions Unit(s) / Process(es)	Emissions Control Device
F1	Drilling	Partially controlled, drill includes a cyclone
F2	Blasting	Uncontrolled
F3	Dozing	Uncontrolled

Table 3.2 contains a summary of the requirements that apply to the drilling, blasting, and dozing processes. Specific permit requirements are listed below Table 3.2.

Table 3.2 APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Parameter	Permit Limit / Standard Summary	Applicable Requirements Reference	Monitoring & Recordkeeping Requirements
3.1, 3.2	Fugitive emissions	Reasonable control PM – 5.39 lb/hr, 29.34 T/yr PM ₁₀ – 1.78 lb/hr, 3.09 T/yr <u>Process rate</u> 435,708 tons/yr of limestone (12-month rolling average)	IDAPA 58.01.01.650	2.2, 2.3, 2.4, 3.3

Permit Limits / Standard Summary**3.1 Fugitive Emissions**

The PM and PM₁₀ fugitive emissions shall be reasonably controlled, as required in IDAPA 58.01.01.650 and 651. The PM emissions shall not exceed 5.39 lb/hr and 29.34 T/yr, and PM₁₀ emissions shall not exceed 1.78 lb/hr and 3.09 T/yr.

[Tier II Permit No. 005-00004, Condition 2.1, 12/8/97; IDAPA 58.01.01.650, 5/1/94]

Operating Requirements**3.2 Process Rate**

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee: Ash Grove Cement Co.
Location: Inkom, Idaho

Project No. T1-9508-132-1

Date Issued: December 17, 2002
Date Expires: December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

The process rate shall not exceed 435,708 tons of limestone rock drilled, blasted, or dozed per year.

[IDAPA 58.01.01.322.06.a, 5/1/94]

Monitoring & Recordkeeping Requirements

3.3 The permittee shall monitor and record the following parameters:

- Tons of rock blasted
- Dozer operating hours per day

A report shall be made on each blast performed.

[Tier II Permit No. 005-00004, Condition 3.1, 12/8/97]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004**Permittee:** Ash Grove Cement Co.
Location: Inkom, Idaho**Project No.** T1-9508-132-1**Date Issued:** December 17, 2002
Date Expires: December 17, 2007*The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.***4. QUARRIED RAW MATERIALS RECEIVING, CRUSHING, AND STORAGE****Summary Description**

The following is a narrative description of the quarried raw materials receiving, crushing, and storage regulated in this Tier I operating permit. This description is for informational purposes only.

Quarried clay, shale, and limestone are reduced in size by crushing and screening. Quarried clay, shale, and limestone are fed onto a feed pad that transfers the material to a jaw crusher for size reduction. The crushed raw material is transferred to the No. 1 screen by inclined belts. Raw material that cannot pass through the screen is reintroduced to the system by transferring it to a hammer mill for crushing and reconveying it to the screen. Material passing the screen is transferred to a cross country belt that either recycles the stockpiled rock through the entire crushing and screening process by reintroducing the material at the jaw crusher, or transfers it to belts which place the material into the raw silos from which it is conveyed to the raw mill.

Table 4.1 describes the devices used to control quarried raw materials receiving, crushing, and storage emissions.

Table 4.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Source Codes	Emissions Unit(s) / Process(es)	Emissions Control Device
F4	Loader to feeder	Partial Enclosure
F5	Feeder to jaw crusher	Enclosure
F6	Jaw crusher to inclined belt	Enclosure
F7	No. 1 incline belt to No. 2 incline belt	Partial Enclosure
F8	No. 2 incline belt to No. 3 incline belt	Water spray or residual moisture
F9	No. 3 incline belt to screen No. 2	Water spray or residual moisture
F10	Screen No. 2 to cross country belt	Water spray or residual moisture
F11	Screen No. 2 to cone crusher	Water spray or residual moisture
F12	Cone crusher to No. 4 incline belt	Water spray or residual moisture
F13	No. 4 incline belt to No. 2 incline belt	Water spray or residual moisture
F14	No. 2 incline belt to screen No. 1	Enclosure
F15	Screen No. 1 to cross country belt	Enclosure
F16	Screen No. 1 to hammer mill	Enclosure
F17	Hammer Mill to No. 1 incline belt	Enclosure

Table 4.2 contains a summary of the requirements that apply to quarried raw materials receiving, crushing, and storage. Specific permit requirements are listed below Table 4.2.

Table 4.2 REQUIREMENTS SUMMARY

Permit Conditions	Parameter	Permit Limit / Standard Summary	Applicable Requirements Reference	Monitoring & Recordkeeping Requirements
4.1	Fugitive Emissions	Reasonable control PM – 23.59 lb/hr, 17.75 T/yr PM ₁₀ – 10.51 lb/hr, 7.82 T/yr <u>Process rate</u> 200 T/hr (monthly average) 435,708 T/yr (12 month rolling average)	IDAPA 58.01.01.650, Tier II Permit No. 005-00004	2.2, 2.3, 2.4, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8
4.2	PM	Process weight	IDAPA 58.01.01.702	None required

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee: Ash Grove Cement Co.
Location: Inkom, Idaho

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The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee: Ash Grove Cement Co.
Location: Inkom, Idaho

Project No. T1-9508-132-1

Date Issued: December 17, 2002
Date Expires: December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

Permit Limits / Standard Summary

4.1 Fugitive Emissions

The PM and PM₁₀ fugitive emissions shall be reasonably controlled, as required in IDAPA 58.01.01.650 and 651. The PM emissions shall not exceed 23.59 lb/hr and 17.75 T/yr, and PM₁₀ emissions shall not exceed 10.51 lb/hr and 7.82 T/yr.

[Tier II Permit No. 005-00004, Condition 2.1, 12/8/97; IDAPA 58.01.01.650, 5/1/94]

4.2 No person shall emit to the atmosphere from any process or process equipment commencing operation prior to October 1, 1979, PM in excess of the amount shown by the following equations, where E is the allowable emissions from the entire source in pounds per hour, and PW is the process weight in pounds per hour.

a. If PW is less than 17,000 lb/hr,

$$E = 0.045(PW)^{0.60}$$

b. If PW is equal to or greater than 17,000 lb/hr,

$$E = 1.12(PW)^{0.27}$$

[IDAPA 58.01.01.702, 4/5/00]

Operating Requirements

4.3 The process rate shall not exceed 200 tons of limestone, clay, and shale per hour on a monthly average basis. The process rate shall not exceed 435,708 tons of limestone, clay, and shale per year based on a 12-month rolling average.

[Tier II Permit No. 005-00004, Condition 4.1, 12/8/97]

Monitoring & Recordkeeping Requirements

4.4 The permittee shall record the hours of operation per day of the water spray.

4.5 The permittee shall record the tons of raw material handled by raw material receiving, crushing, and storage each day.

4.6 The permittee shall record the hours of operation per day of raw material receiving, crushing, and storage.

4.7 The permittee shall record, in a daily report, the information requested in Permit Conditions 4.4, 4.5, and 4.6. The records shall be maintained on file by the permittee for a minimum period of five years and shall be made available to Department representatives upon request.

[Tier II Permit No. 005-00004, Conditions 3.1, 3.2, 3.3, 5, 12/8/97; IDAPA 58.01.01.322.07.c, 5/1/94]

4.8 Using the information recorded in Permit Condition 4.7, once each month, the permittee shall calculate the average hourly process rate of raw materials (clay, shale, and limestone) for the previous month and

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the total tons of raw materials processed based on a 12-month rolling average.

[IDAPA 58.01.01.322.07, 5/1/94]

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Location: Inkom, Idaho**Project No.** T1-9508-132-1**Date Issued:** December 17, 2002
Date Expires: December 17, 2007*The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.***5. IRON ORE RECEIVING, CRUSHING, AND STORAGE****Summary Description**

The following is a narrative description of the iron ore receiving, crushing, and storage processes regulated in this Tier I operating permit. This description is for informational purposes only.

Iron ore from an outside source is belly/end dumped and stockpiled in the quarry. A front-end loader transfers the stockpiled iron ore onto a feed pad for transfer to a jaw crusher. The iron ore is crushed and conveyed to the No. 1 screen. The screened iron ore is then conveyed to the iron ore silo for storage. From the silo, the iron ore is conveyed to the raw mill.

Table 5.1 describes the control devices used in controlling emissions from the sources regulated in this permit.

Table 5.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Source Codes	Emissions Unit(s) / Process(es)	Emissions Control Device
F4	Loader to feeder	Partial enclosure
F5	Feeder to jaw crusher	Enclosure
F6	Jaw crusher to inclined belt	Enclosure
F7	No. 1 incline belt to No. 2 incline belt	Partial enclosure
F8	No. 2 incline belt to No. 3 incline belt	Water spray or residual moisture
F9	No. 3 incline belt to screen No. 2	Water spray or residual moisture
F10	Screen No. 2 to cross country belt	Water spray or residual moisture
F11	Screen No. 2 to cone crusher	Water spray or residual moisture
F12	Cone crusher to No. 4 incline belt	Water spray or residual moisture
F13	No. 4 incline belt to No. 2 incline belt	Water spray or residual moisture
F14	No. 2 incline belt to screen No. 1	Enclosure
F15	Screen No. 1 to cross country belt	Enclosure
F16	Screen No. 1 to hammer mill	Enclosure
F17	Hammer mill to No. 1 incline belt	Enclosure

Table 5.2 contains a summary of the requirements that apply to iron ore receiving, crushing, and storage. Specific permit requirements are listed below Table 5.2.

Table 5.2 APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Parameter	Permit Limit / Standard Summary	Applicable Requirements Reference	Monitoring & Recordkeeping Requirements
5.1, 5.4	Fugitive emissions	Reasonable control PM – 2.26 lb/hr, 0.04 T/yr PM ₁₀ – 1.08 lb/hr, 0.02 T/yr <u>Process rate</u> 200 T/hr (monthly average) 7,000 T/yr (12-month rolling average)	IDAPA 58.01.01.650	2.2, 2.3, 2.4, 5.5, 5.6, 5.7, 5.8, 5.9
5.2	PM	Process weight	IDAPA 58.01.01.702	None required
5.3	Visible emissions	10% Opacity	40 CFR 60.62(c)	2.8

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

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AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee: Ash Grove Cement Co.
Location: Inkom, Idaho

Project No. T1-9508-132-1

Date Issued: December 17, 2002
Date Expires: December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

Permit Limits / Standard Summary

5.1 Fugitive Emissions

The PM and PM₁₀ fugitive emissions shall be reasonably controlled, as required in IDAPA 58.01.01.650 and 651. The PM emissions shall not exceed 2.26 lb/hr and 0.04 T/yr, and PM₁₀ emissions shall not exceed 1.08 lb/hr and 0.02 T/yr.

[Tier II Permit No. 005-00004, Condition 2.1, 11/27/02, IDAPA 58.01.01.650, 5/1/94]

5.2 No person shall emit into the atmosphere from any process or process equipment commencing operation prior to October 1, 1979, PM in excess of the amount shown by the following equations, where E is the allowable emissions from the entire source in pounds per hour, and PW is the process weight in pounds per hour.

a. If PW is less than 17,000 lb/hr,

$$E = 0.045(PW)^{0.6}$$

b. If PW is equal to or greater than 17,000 lb/hr,

$$E = 1.12(PW)^{0.27}$$

[IDAPA 58.01.01.702, 4/5/00]

5.3 Visible emissions from conveyor transfer points shall not exceed 10% opacity.

[Tier II Permit No. 005-00004, 11/27/02; 40 CFR 60.62(c)]

Operating Requirements

5.4 The process rate shall not exceed 200 tons of iron ore per hour on a monthly average basis. The process rate shall not exceed 7,000 tons of iron ore per year based on a 12-month rolling average.

[Tier II Permit No. 005-00004, Condition 4.1, 11/27/02]

Monitoring & Recordkeeping Requirements

5.5 The permittee shall record the hours of operation per day of the water spray.

5.6 The permittee shall record the tons of iron ore handled by iron ore receiving, crushing and storage each day.

5.7 The permittee shall record the hours of operation per day of iron ore receiving, crushing, and storage.

5.8 The permittee shall record, in a daily report, the information requested in Permit Conditions 5.5, 5.6, and 5.7.

[Tier II Permit No. 005-00004, Conditions 3.1, 3.2, 3.3, 5, 12/8/97]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

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Location: Inkom, Idaho

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- 5.9 Using the information recorded in Permit Condition 5.8, once each month, the permittee shall calculate the average hourly process rate of iron ore for the previous month and the total tons of iron ore processed based upon a 12-month rolling average.

[IDAPA 58.01.01.322.07, 5/1/94]

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Location: Inkom, Idaho**Project No.** T1-9508-132-1**Date Issued:** December 17, 2002
Date Expires: December 17, 2007*The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.***6. SILICA RECEIVING, CRUSHING, AND STORAGE****Summary Description**

The following is a narrative description of the silica receiving, crushing, and storage processes regulated in this Tier I operating permit. This description is for informational purposes only.

Silica from an outside source is belly/end dumped and stockpiled in the quarry. A front-end loader transfers the stockpiled silica onto a feed pad for transfer to a jaw crusher. The silica is crushed and conveyed to the No. 2 screen. Silica that cannot be screened is recycled through the system by transfer to a cone crusher for crushing and reconveying to the No. 2 screen. The silica passing the screen is conveyed by a cross country belt that either recycles the stockpiled material through the entire crushing and screening process by reintroducing the crushed material at the feed pad, or transfers it to belts which place the material in the raw silos. From the raw silos, the silica is conveyed into the raw mill by a feed belt.

Table 6.1 describes the devices used to control emissions from silica receiving, crushing, and storage.

Table 6.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Source Codes	Emissions Unit(s) / Process(es)	Emissions Control Device
F4	Loader to feeder	Partial enclosure
F5	Feeder to jaw crusher	Enclosure
F6	Jaw crusher to No. 1 inclined belt	Enclosure
F7	No. 1 inclined belt to No. 2 inclined belt	Partial Enclosure
F8	No. 2 inclined belt to No. 3 inclined belt	Enclosure
F9	No. 3 inclined belt to screen No. 2	Enclosure
F10	Screen No. 2 to cross country belt	Enclosure
F11	Screen No. 2 to cone crusher	Enclosure
F12	Cone crusher to No. 4 inclined belt	Enclosure
F13	No. 4 inclined belt to No. 2 inclined belt	Enclosure
F18	Cross country belt to belt B	Water spray or residual moisture inherent in the rock
F19	Belt B to belt C	Water spray or residual moisture inherent in the rock
F20	Belt C to silos (3)	Enclosure
F24	Cross country belt to discharge chute	Water spray or residual moisture inherent in the rock
F25	Discharge chute to ground	Water spray or residual moisture inherent in the rock

Table 6.2 contains a summary of the requirements that apply to silica receiving, crushing, and storage. Specific permit requirements are listed below Table 6.2.

Table 6.2 APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Parameter	Permit Limit / Standard Summary	Applicable Requirements Reference	Monitoring & Recordkeeping Requirements
6.1, 6.3	Fugitive emissions	Reasonable control PM – 10.18 lb/hr, 2.63 T/yr PM ₁₀ – 4.52 lb/hr, 1.18 T/yr	IDAPA 58.01.01.650	6.4, 6.5, 6.6, 6.7, 6.8

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004**Permittee:** Ash Grove Cement Co.
Location: Inkom, Idaho**Project No.** T1-9508-132-1**Date Issued:** December 17, 2002**Date Expires:** December 17, 2007*The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.*

		<u>Process rate</u> 96 T/hr (monthly average) 43,571 T/yr (12-month rolling average)		
6.2	PM	Process weight	IDAPA 58.01.01.702	None required

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee: Ash Grove Cement Co.
Location: Inkom, Idaho

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Date Issued: December 17, 2002
Date Expires: December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

Permit Limits / Standard Summary

6.1 Fugitive Emissions

The PM and PM₁₀ fugitive emissions shall be reasonably controlled, as required in IDAPA 58.01.01.650 and 651. The PM emissions shall not exceed 10.18 lb/hr and 2.63 T/yr, and PM₁₀ emissions shall not exceed 4.52 lb/hr and 1.18 T/yr.

[Tier II Permit No. 005-00004, Condition 2.1, 12/8/97; IDAPA 58.01.01.650, 5/1/94]

6.2 No person shall emit to the atmosphere from any process or process equipment commencing operation prior to October 1, 1979, PM in excess of the amount shown by the following equations, where E is the allowable emissions from the entire source in pounds per hour, and PW is the process weight in pounds per hour.

a. If PW is less than 17,000 lb/hr,

$$E = 0.045(PW)^{0.6}$$

c. If PW is equal to or greater than 17,000 lb/hr,

$$E = 1.12(PW)^{0.27}$$

[IDAPA 58.01.01.702, 4/5/00]

Operating Requirements

6.3 The process rate shall not exceed 96 tons of silica per hour on a monthly average basis. The process rate shall not exceed 43,571 tons of silica per year based on a 12-month rolling average.

[Tier II Permit No. 005-00004, Condition 4.1, 12/8/97]

Monitoring & Recordkeeping Requirements

6.4 The permittee shall record the hours of operation per day of the water spray.

6.5 The permittee shall record the tons of silica handled by silica receiving, crushing, and storage each day.

6.6 The permittee shall record the hours of operation per day of silica receiving, crushing, and storage.

6.7 The permittee shall record, in a daily report, the information requested in Permit Conditions 6.4, 6.5, and 6.6.

[Tier II Permit No. 005-00004, Conditions 3.1, 3.2, 3.3, 5, 12/8/97]

6.8 Using the information recorded in Permit Condition 6.7, once each month, the permittee shall calculate the average hourly process rate of silica for that month and the total tons of silica processed based upon a 12-month rolling average.

[IDAPA 58.01.01.322.07, 5/1/94]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee: Ash Grove Cement Co.
Location: Inkom, Idaho

Project No. T1-9508-132-1

Date Issued: December 17, 2002
Date Expires: December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

7. GYPSUM RECEIVING, CRUSHING, AND STORAGE

Summary Description

The following is a narrative description of the gypsum receiving, crushing, and storage processes regulated in this Tier I operating permit. This description is for informational purposes only.

Gypsum from an outside source is belly/end dumped and stockpiled in the quarry. A front-end loader transfers the stockpiled gypsum onto a feed pad for transfer to a jaw crusher. The gypsum is crushed and conveyed to the No. 1 screen. Gypsum that cannot be screened is recycled through the system by transfer to a hammer mill for crushing, and reconveying to the No. 1 screen. The screened gypsum is then conveyed by a cross country belt to a gypsum belt that transfers it to a gypsum bin for storage.

Table 7.1 describes the devices used to control emissions from gypsum receiving, crushing, and storage.

Table 7.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Source Codes	Emissions Unit(s) / Process(es)	Emissions Control Device
F4	Loader to feeder	Partial enclosure
F5	Feeder to jaw crusher	Enclosure
F6	Jaw crusher to No. 1 inclined belt	Enclosure
F7	No. 1 inclined belt to No. 2 inclined belt	Partial enclosure
F14	No. 2 inclined belt to screen No. 1	Enclosure
F15	Screen No. 1 to cross country belt	Enclosure
F16	Screen No. 1 to hammer mill	Enclosure
F17	Hammer mill to No. 1 inclined belt	Enclosure
F21	Cross country belt to gypsum belt	Water spray or residual moisture inherent in the rock
F22	Gypsum belt to chute	Water spray or residual moisture inherent in the rock
F23	Chute to gypsum bin	Water spray or residual moisture inherent in the rock

Table 7.2 contains a summary of the requirements that apply to the gypsum receiving, crushing, and storage process. Specific permit requirements are listed below Table 7.2.

Table 7.2 APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Parameter	Permit Limit / Standard Summary	Applicable Requirements Reference	Monitoring & Recordkeeping Requirements
7.1, 7.3	Fugitive emissions	Reasonably controlled PM – 22.86 lb/hr, 1.18 T/yr PM ₁₀ – 10.21 lb/hr, 0.54 T/yr <u>Process rate</u> 200 T/hr (monthly average) 22,737 T/yr (12-month rolling average)	IDAPA 58.01.01.650	2.2, 2.3, 2.4, 7.4, 7.5, 7.6, 7.7, 7.8
7.2	PM	Process weight	IDAPA 58.01.01.702	None required

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

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Permit Limits / Standard Summary

7.1 Fugitive Emissions

The PM and PM₁₀ fugitive emissions shall be reasonably controlled, as required in IDAPA 58.01.01.650 and 651. The PM emissions shall not exceed 22.86 lb/hr and 1.18 T/yr, and PM₁₀ emissions shall not exceed 10.21 lb/hr and 0.54 T/yr.

[Tier II Permit No. 005-00004, Condition 2.1, 12/8/97; IDAPA 58.01.01.650, 5/1/94]

7.2 No person shall emit to the atmosphere from any process or process equipment commencing operation prior to October 1, 1979, PM in excess of the amount shown by the following equations, where E is the allowable emissions from the entire source in pounds per hour, and PW is the process weight in pounds per hour.

a. If PW is less than 17,000 lb/hr,

$$E = 0.045(PW)^{0.6}$$

b. If PW is equal to or greater than 17,000 lb/hr,

$$E = 1.12(PW)^{0.27}$$

[IDAPA 58.01.01.702, 4/5/00]

Operating Requirements

7.3 The process rate shall not exceed 200 tons of gypsum per hour on a monthly average basis. The process rate shall not exceed 22,737 tons of gypsum per year based on a 12-month rolling average.

[Tier II Permit No. 005-00004, Condition 4.1, 12/8/97]

Monitoring & Recordkeeping Requirements

7.4 The permittee shall record the hours of operation per day of the water spray.

7.5 The permittee shall record the tons of gypsum handled by gypsum receiving, crushing, and storage each day.

7.6 The permittee shall record the hours of operation per day of gypsum receiving, crushing, and storage.

7.7 The permittee shall record, in a daily report, the information requested in Permit Conditions 7.4, 7.5, and 7.6.

[Tier II Permit No. 005-00004, Conditions 3.1, 3.2, 3.3, 5, 12/8/97]

7.8 Using the information recorded in Permit Condition 7.7, once each month, the permittee shall calculate the average hourly process rate of gypsum for the previous month and the total tons of gypsum processed based upon a 12-month rolling average.

[IDAPA 58.01.01.322.07, 5/1/94]

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Location: Inkom, Idaho**Project No.** T1-9508-132-1**Date Issued:** December 17, 2002
Date Expires: December 17, 2007*The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.***8. STORAGE PILES*****Summary Description***

The following is a narrative description of the storage piles regulated in this Tier I operating permit. This description is for informational purposes only.

Limestone (high and low), gypsum, iron ore, silica, and cement kiln dust are stored in the quarry in piles. Coal is stored at the plant in a pile.

Table 8.1 describes the devices used to control storage pile emissions.

Table 8.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Pile Number	Emissions Unit(s) / Process(es)	Emissions Control Device
1	Limestone high	Uncontrolled
2	Limestone low	Uncontrolled
3	Gypsum	Uncontrolled
4	Iron ore	Uncontrolled
5	Coal	Uncontrolled
6	Silica	Uncontrolled
7	CKD storage pile	Uncontrolled

Table 8.2 contains a summary of the requirements that apply to the storage piles. Specific permit requirements are listed below Table 8.2.

Table 8.2 APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Parameter	Permit Limit / Standard Summary	Applicable Requirements Reference	Monitoring & Recordkeeping Requirements
8.1	Fugitive emissions	Reasonable control PM – 5.39 lb/hr, 33.25 T/yr PM ₁₀ – 1.78 lb/hr, 3.29 T/yr <u>Storage pile footprint area</u> Limestone high – 2.0 acres Limestone low – 2.0 acres Gypsum – 0.5 acre Iron ore – 0.4 acre Coal – 1.0 acre Silica – 1.0acre CKD – 1.0 acre	IDAPA 58.01.01.650	2.2, 2.3, 2.4, 8.2, 8.3. 8.4, 8.5, 8.6, 8.7, 8.8

Permit Limits / Standard Summary**8.1 Fugitive Emissions**

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

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The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

The PM and PM₁₀ fugitive emissions shall be reasonably controlled, as required in IDAPA 58.01.01.650 and 651. The PM emissions shall not exceed 5.39 lb/hr and 33.25 T/yr, and PM₁₀ emissions shall not exceed 1.78 lb/hr and 3.29 T/yr.

[Tier II Permit No. 005-00004, Condition 2.1, 12/8/97; IDAPA 58.01.01.650, 5/1/94]

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Date Expires: December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

Operating Requirements

- 8.2 The limestone high and limestone low storage piles shall be limited to a total footprint area of 4 acres and an annual material throughput of 435,708 T/yr.
- 8.3 The gypsum storage pile shall be limited to a footprint area of 0.5 acre and an annual material throughput of 22,737 T/yr.
- 8.4 The iron ore storage pile shall be limited to a footprint area of 0.4 acre and an annual material throughput of 7,000 T/yr.
- 8.5 The coal storage pile shall be limited to a footprint area of 1 acre and an annual material throughput of 70,000 T/yr.
- 8.6 The silica storage pile shall be limited to a footprint area of 1 acre and an annual material throughput of 43,571 T/yr.
- 8.7 The active cement kiln dust storage pile shall be limited to a footprint area of 1 acre and an annual material throughput of 4,500 T/yr.

[Tier II Permit No. 005-00004, Condition 3, 12/8/97]

Monitoring & Recordkeeping Requirements

- 8.8 Once each year the permittee shall monitor and record the footprint area and tons of material throughput of the limestone high, limestone low, gypsum, iron ore, coal, silica, and active cement kiln dust storage piles.

[IDAPA 58.01.01.322.06, 07; 5/1/94]

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Location: Inkom, Idaho**Project No.** T1-9508-132-1**Date Issued:** December 17, 2002
Date Expires: December 17, 2007*The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.***9. SILO WITHDRAWAL, CONVEYING, AND STORAGE****Summary Description**

The following is a narrative description of the silo withdrawal, conveying, and storage processes regulated in this Tier I operating permit. This description is for informational purposes only.

Limestone, silica, and iron ore are transferred from silo storage to mill No. 4 (raw mill). Mill No. 4 processes the limestone, silica, and iron ore with water into a raw meal (slurry). Mill No. 3 may be used as a back up raw mill only when mill No. 4 is not operating.

Table 9.1 describes the devices used to control emissions from silo withdrawal, conveying, and storage.

Table 9.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Source Codes	Emissions Unit(s) / Process(es)	Emissions Control Device
F26	Silo feeder to feed belt	Enclosed
F27	Silo feeder to feed belt	Enclosed
F28	Silo feeder to feed belt	Enclosed
F29	Silo feeder to feed belt	Enclosed
F30	Feed belt to mill No. 4 (raw mill)	Enclosed
F31	Mill No. 4 to slurry tank	Process water
F32	Feed belt to mill No. 3 (auxiliary raw mill)	Enclosed
F33	Mill No. 3 to slurry tank	Process water

Table 9.2 contains a summary of the requirements that apply to the silo withdrawal, conveying, and storage processes. Specific permit requirements are listed below Table 9.2.

Table 9.2 APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Parameter	Permit Limit / Standard Summary	Applicable Requirements Reference	Monitoring & Recordkeeping Requirements
9.1, 9.3	Fugitive emissions	Reasonable control PM – 0.42 lb/hr, 1.48 T/yr PM ₁₀ – 0.19 lb/hr, 0.68 T/yr <u>Process rate</u> 60 tons raw meal per hour (monthly average) 450,000 tons raw meal per year (12-month rolling average)	IDAPA 58.01.01.650	2.2, 2.3, 2.4, 9.4, 9.5, 9.6, 9.7
9.2	PM	Process weight	IDAPA 58.01.01.702	None required

Permit Limits / Standard Summary

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The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

9.1 Fugitive Emissions

The PM and PM₁₀ fugitive emissions shall be reasonably controlled, as required in IDAPA 58.01.01.650 and 651. The PM emissions shall not exceed 0.42 lb/hr and 1.48 T/yr, and PM₁₀ emissions shall not exceed 0.19 lb/hr and 0.68 T/yr.

[Tier II Permit No. 005-00004, Condition 2.1, 12/8/97; IDAPA 58.01.01.650, 5/1/94]

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The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

- 9.2 No person shall emit to the atmosphere from any process or process equipment commencing operation prior to October 1, 1979, PM in excess of the amount shown by the following equations, where E is the allowable emissions from the entire source in pounds per hour, and PW is the process weight in pounds per hour.

- a. If PW is less than 17,000 lb/hr,

$$E = 0.045(PW)^{0.6}$$

- b. If PW is equal to or greater than 17,000 lb/hr,

$$E = 1.12(PW)^{0.27}$$

[IDAPA 58.01.01.702, 4/5/00]

Operating Requirements

- 9.3 The process rate of the raw mill shall not exceed 60 tons of raw meal per hour on an average monthly basis. The process rate shall not exceed 450,000 tons of raw meal per year based on a 12-month rolling average.

[Tier II Permit No. 005-00004, Condition 4, 12/8/97]

Monitoring & Recordkeeping Requirements

- 9.4 Each day, the permittee shall record the tons of limestone, silica, and iron ore transported to and processed by the raw mill.

[Tier II Permit No. 005-00004, Permit Condition 3, 12/8/97]

- 9.5 Each day, the permittee shall record the hours of operation of the raw mill No. 3 and raw mill No. 4.

[IDAPA 58.01.01.322.07, 5/1/94]

- 9.6 The permittee shall record, in a daily report, the information requested in Permit Conditions 9.4 and 9.5.

[Tier II Permit No. 005-00004, Permit Condition 5, 12/8/97]

- 9.7 Once each month, the permittee shall calculate the average hourly process rate of the raw mill for the previous month and the total tons of raw mill per year based on a 12-month rolling average using the information recorded in Permit Condition 9.6.

[IDAPA 58.01.01.322.07, 5/1/94]

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Date Expires: December 17, 2007*The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.***10. NO. 1 AND NO. 2 ROTARY KILNS*****Summary Description***

The following is a narrative description of the rotary kilns regulated in this Tier I operating permit. This description is for informational purposes only.

The No. 1 and No. 2 rotary kilns process clinker for the production of Portland cement. The raw materials used in this process include limestone, silica, iron ore, and shale. The following five fuels are used to fire the kilns: natural gas, used oil, petroleum coke, whole tire/TDF, and coal. In the kilns, the combustion gases flow countercurrent to the clinker flow and exit through the emissions control equipment. A multiclone and electrostatic precipitator in series control each kiln. High temperatures and long residence time in the kilns have been demonstrated to create a destruction and removal efficiency (DRE) greater than 99.99% for organic compounds. The cement kiln process has shown that over 99% of the metals chemically recombine into the complex compounds that make up the matrix of clinker.

Table 10.1 describes the devices used to control emissions from kilns No.1 and No.2.

Table 10.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Source Codes	Emissions Unit(s) / Process(es)	Emissions Control Device
C1	Kiln No. 1	Multiclone, electrostatic precipitator
C2	Kiln No. 2	Multiclone, electrostatic precipitator

Table 10.2 contains a summary of the requirements that apply to the No. 1 and No. 2 kilns. Specific permit requirements are listed below Table 10.2.

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The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

Table 10.2 APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Affected Unit	Parameter	Permit Limit / Standard Summary	Applicable Requirements Reference	Monitoring & Recordkeeping Requirements
10.1.1	Kiln No. 1	PM PM ₁₀ SO ₂ NO _x VOCs CO Total Lead Benzo(a)pyrene	PM – 11.61 lb/hr, 50.83 T/yr PM ₁₀ – 9.86 lb/hr, 43.21 T/yr SO ₂ – 24 lb/hr, 100 T/yr NO _x – 144 lb/hr, 576 T/yr VOCs – 5.92 lb/hr, 25.9 T/yr CO – 234.4 lb/hr, 937.7 T/yr Total Lead – 0.27 lb/hr, 1.08 T/yr Benzo(a)pyrene – 8.5E-3 lb/hr, 3.4E-2 T/yr	Tier II Permit No. 005-00004, Conditions 2.1.1, 2.1.2	10.5, 10.6, 10.10, 10.11, 10.12, 10.13, 10.14, 10.15, 10.16, 10.18, 10.19, 10.20
10.1.1	Kiln No. 2	PM PM ₁₀ SO ₂ NO _x VOCs CO Total Lead Benzo(a)pyrene	PM – 16.87 lb/hr, 73.91 T/yr PM ₁₀ – 14.34 lb/hr, 62.82 T/yr SO ₂ – 24 lb/hr, 100 T/yr NO _x – 193 lb/hr, 751 T/yr VOCs – 6.96 lb/hr, 30.5 T/yr CO – 275.8 lb/hr, 1103.2 T/yr Total Lead – 0.31 lb/hr, 1.24 T/yr Benzo(a)pyrene – 1.0E-2 lb/hr, 4.0E-2 T/yr	Tier II Permit No. 005-00004, Conditions 2.1.1, 2.1.2	10.5, 10.6, 10.10, 10.11, 10.12, 10.13, 10.14, 10.15, 10.16, 10.18, 10.19, 10.20
10.1.2	Kiln No. 1 and No. 2	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	Tier II Permit No. 005-00004, Conditions 2.1.3; IDAPA 58.01.01.625; 40 CFR 60.62	10.23, 10.28
10.2	Kiln No. 1 and No. 2	Particulate matter	Process weight	IDAPA 58.01.01.702	None required
10.3	Kiln No. 1 and No. 2	Dioxin/Furan (D/F)	0.20 ng ⁽¹⁾ TEQ ⁽²⁾ per dscm ⁽³⁾ corrected to 7% oxygen; or 0.40 ng TEQ per dscm corrected to 7% oxygen, when the average of the performance test run temperatures at the inlet to the PMCD ⁽⁴⁾ is 204° C or less Operate such that the three-hour rolling average PMCD inlet temperature is no greater than the temperature established at performance test	40 CFR 63.1343(d)	10.7, 10.8, 10.9, 10.17, 10.21, 10.22, 10.25, 10.26, 10.27
10.4	Kiln No. 1 and No. 2	Particulate matter	0.3 lb/ton of feed	40 CFR 60.62	10.24

⁽¹⁾ Nanogram – one billionth of a gram

⁽²⁾ International method of expressing *toxicity equivalents* for dioxins and furans as defined in U.S. EPA, Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-dioxins and –dibenzofurans (CDDs and CDFs) and 1989 Update, March 1989

⁽³⁾ Dry standard cubic meter

⁽⁴⁾ Particulate matter control device

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The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

Permit Limits / Standard Summary10.1 No. 1 Kiln and No. 2 Kiln (Requirements for each kiln)

- 10.1.1 The PM, PM₁₀, SO₂, NO_x, VOCs, CO emissions, total lead, benzo(a)pyrene, and organic HAPs shall not exceed any corresponding emissions limit listed in Table 10.3.

Table 10.3 KILNS NO. 1 AND NO. 2 EMISSIONS LIMITS

Pollutant		Kiln No. 1	Kiln No. 2	Averaging Period
PM	lb/hr	11.61	16.87	Average, 3 one-hour tests
	T/yr	50.83	73.91	
PM ₁₀	lb/hr	9.86	14.34	Average, 3 one-hour tests
	T/yr	43.21	62.82	
SO ₂	lb/hr	24	24	Average, 3 one-hour tests
	T/yr	100	100	
NO _x	lb/hr	144	193	12-month rolling average
	T/yr	576	751	
VOC	lb/hr	5.92	6.96	Average, 3 one-hour tests
	T/yr	25.9	30.5	
CO	lb/hr	234.4	275.8	1-hour average
	T/yr	937.7	1103.2	
Total lead	lb/hr	0.27	0.31	Average, 3 one-hour tests
	T/yr	1.08	1.24	
BAP	lb/hr	8.5E-3	1.0 E-2	Average, 3 one-hour tests
	T/yr	3.4 E-2	4.0 E-2	
Organic HAPs	T/yr	9.9		12-month rolling average

[Tier II Permit No. 005-00004, Conditions 2.1.1, 2.1.2, 12/8/97; Consent Order, Condition 21, 6/10/02]

- 10.1.2 Visible emissions shall not exceed 20% opacity.

[Tier II Permit No. 005-00004, Condition 2.1.3, 12/8/97; 40 CFR 60.62]

- 10.2 No person shall emit to the atmosphere from any process or process equipment commencing operation prior to October 1, 1979, PM in excess of the amount shown by the following equations, where E is the allowable emissions from the entire source in pounds per hour, and PW is the process weight in pounds per hour.

- a. If PW is less than 17,000 lb/hr,

$$E = 0.045(PW)^{0.60}$$

- b. If PW is equal to or greater than 17,000 lb/hr,

$$E = 1.12(PW)^{0.27}$$

[IDAPA 58.01.01.702, 4/5/00]

- 10.3 No owner or operator of an existing kiln at a facility that is an area source subject to the provisions of 40

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The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

CFR 63 Subpart LLL shall cause to be discharged into the atmosphere from these affected sources any gases which contain D/F in excess of the following:

(1) 0.20 ng per dscm (8.7×10^{-11} gr per dscf)(TEQ) corrected to 7% oxygen; or

(2) 0.40 ng per dscm (1.7×10^{-10} gr per dscf)(TEQ) corrected to 7% oxygen, when the average of the performance test run average temperatures at the inlet to the PM control device is 204°C (400°F) or less.

[40 CFR 63.1343(d)]

10.4 No owner or operator subject to the provisions of 40 CFR 60 Subpart F shall cause to be discharged to the atmosphere from any kiln any gases which contain PM in excess of 0.15 kg per metric ton of feed (dry basis) to the kiln (0.30 lb per ton).

[40 CFR 60.62, Consent Order, Condition 9A, 6/10/02]

Operating Requirements

10.5 Fuel Usage

10.5.1 The No. 1 and No. 2 kilns shall burn coal, natural gas, whole tire/tire derived fuel, petroleum coke, or used oil which meets the requirements of Permit Conditions 10.5.4, 10.5.5, and 10.10.

10.5.2 The tire feed rate to each kiln shall not exceed 500 lb/hr based upon a 12-month rolling average.

10.5.3 Coal burned in the No. 1 and No. 2 kilns shall contain no greater than 1% sulfur by weight in accordance with IDAPA 58.01.01.729.

10.5.4 Used oil burned in the No. 1 and No. 2 kilns shall contain no greater than five parts per million of polychlorinated biphenyls in accordance with IDAPA 58.01.01.164.01.

10.5.5 Used oil burned in the No. 1 and No. 2 kilns shall not exceed 25% of the kilns' fuel requirement on a British thermal unit basis.

10.5.6 Whole tire/TDF burned in the kilns shall not exceed the following quantities:

- 25% of the No. 1 kiln's fuel requirement on a British thermal unit basis, or the percentage of whole tire/TDF burned during the source test conducted to demonstrate compliance with Permit Condition 10.1.
- 25% of the No. 2 kiln's fuel requirement on a British thermal unit basis, or the percentage of whole tire/TDF burned during the source test conducted to demonstrate compliance with Permit Condition 10.1.

10.5.7 Used oil and whole tire/TDF shall only be burned in a kiln when the kiln's ESP is operating.

10.5.8 Test burns shall be required should the permittee propose to combust used oil or whole tire/TDF at rates greater than those stated in Permit Conditions 10.5.2, 10.5.5 and 10.5.6. Department approval shall be required prior to conducting test burns at fueling rates which exceed permitted rates.

**[Tier II Permit No. 005-00004, Condition 4.1, 12/8/97; Consent Order, Condition 21.F, 6/10/02;
IDAPA 58.01.01.164.01, 5/1/94; IDAPA 58.01.01.729, 5/1/94]**

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The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

10.6 The No. 1 kiln shall process no more than 15.4 tons of clinker per hour on an annual average basis, and the No. 2 kiln shall process no more than 19.4 tons of clinker per hour on an annual average basis.
[Tier II Permit No. 005-00004, Condition 4.2, 12/8/97]

10.7 The owner or operator of a kiln subject to a D/F emissions limitation under 40 CFR 63.1343 must operate the kiln such that the temperature of the gas at the inlet to the kiln Particulate matter control device (PMCD) and alkali bypass PMCD, if applicable, does not exceed the applicable temperature limit specified in Permit Condition 10.8.
[40 CFR 63.1344(a)]

10.8 The temperature limit for affected sources meeting the limits of Permit Condition 10.7 is determined in accordance with 40 CFR 63.1349(b)(3)(iv).
[40 CFR 63.1344(b)]

Performance Testing Requirements

10.9 Dioxin/Furan

10.9.1 The owner or operator of an affected source subject to this subpart shall demonstrate initial compliance with the emissions limits of 40 CFR 63.1343 using the test methods and procedures in paragraph (b) of this section and 40 CFR 63.7. Performance test results shall be documented in complete test reports that contain the information required by paragraphs (1) through (10) of this section, as well as all other relevant information. The plan to be followed during testing shall be made available to the Administrator prior to testing, if requested.

- (1) A brief description of the process and the air pollution control system
- (2) Sampling location description(s)
- (3) A description of sampling and analytical procedures and any modifications to standard procedures
- (4) Test results
- (5) Quality assurance procedures and results
- (6) Records of operating conditions during the test, preparation of standards, and calibration procedures
- (7) Raw data sheets for field sampling and field and laboratory analyses
- (8) Documentation of calculations
- (9) All data recorded and used to establish parameters for compliance monitoring
- (10) Any other information required by the test method

[40 CFR 63.1349(a)]

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The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

10.9.2 The owner or operator of an affected source subject to limitations on D/F emissions shall demonstrate initial compliance with the D/F emissions limit by conducting a performance test using Method 23 of Appendix A to 40 CFR Part 60.

(i) Each performance test shall consist of three separate runs; each run shall be conducted under the conditions that exist when the affected source is operating at the representative performance conditions in accordance with 63.7(e). The duration of each run shall be at least three hours and the sample volume for each run shall be at least 2.5 dscm (90 dscf). The concentration shall be determined for each run and the arithmetic average of the concentrations measured for the three runs shall be calculated and used to determine compliance.

(ii) The temperature at the inlet to the kiln or in-line kiln/raw mill PMCD, and where applicable, the temperature at the inlet to the alkali bypass PMCD, must be continuously recorded during the period of the Method 23 test, and the continuous temperature record(s) must be included in the performance test report.

(iii) One-minute average temperatures must be calculated for each minute of each run of the test.

(iv) The run average temperature must be calculated for each run, and the average of the run average temperatures must be determined and included in the performance test report and will determine the applicable temperature limit in accordance with Permit Condition 10.8 (40 CFR 63.1344(b)).

[40 CFR 63.1349(b)(3)]

10.9.3 Performance tests required under Permit Condition 10.9.2 shall be repeated every 30 months.

[40 CFR 63.1349(d)]

10.9.4 If a source plans to undertake a change in operations that may adversely affect compliance with an applicable D/F standard under 40 CFR 63 Subpart LLL, the source must conduct a performance test and establish new temperature limit(s) as specified in Permit Condition 10.9.2. In preparation for and while conducting a performance test required in this condition, a source may operate under the planned operational change conditions for a period not to exceed 360 hours, provided that the conditions in paragraphs (i) through (iv) of this section are met. The source shall submit temperature and other monitoring data that are recorded during the pretest operations.

(i) The source must provide the Administrator written notice at least 60 days prior to undertaking an operational change that may adversely affect compliance with an applicable standard under 40 CFR 63 Subpart LLL, or as soon as practicable where 60 days advance notice is not feasible. Notice provided under this paragraph shall include a description of the planned change, the emissions standards that may be affected by the change, and a schedule for completion of the performance test required under this condition, including when the planned operational change period would begin.

(ii) The performance test results must be documented in a test report according to Permit Condition 10.9.1.

(iii) A test plan must be made available to the Administrator prior to testing, if requested.

(iv) The performance test must be conducted, and it must be completed within 360 hours after the planned operational change period begins.

[40 CFR 63.1349(e)]

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The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

10.10 Used Oil

- 10.10.1 Used oil burned for energy recovery, and any fuel produced from used oil by processing, blending, or other treatment, is subject to regulation under 40 CFR 279 [/cgi-bin/products.cgi/fedstate/fd/fedstate/fd/xref.cgi?cp=1&toc_search=1&r_date=200112&xwhere=Citation%20contains%20Title%5c%2040%20%26%20Part%5c%20279](http://www.epa.gov/bin/products.cgi/fedstate/fd/fedstate/fd/xref.cgi?cp=1&toc_search=1&r_date=200112&xwhere=Citation%20contains%20Title%5c%2040%20%26%20Part%5c%20279) unless it is shown not to exceed any of the allowable levels of the constituents and properties in the specification shown in Table 1. Once used oil that is to be burned for energy recovery has been shown not to exceed any specification, and the person making that showing complies with 40 CFR 279.72, 279.73, and 279.74(b), the used oil is no longer subject to 40 CFR 279.

Table 10.3 Used Oil Not Exceeding Any Specification Level Is Not Subject to 40 CFR 279 When Burned for Energy Recovery¹

Constituent/property	Allowable level
Arsenic	5 ppm maximum
Cadmium	2 ppm maximum
Chromium	10 ppm maximum
Lead	100 ppm maximum
Flash point	100°F minimum
Total halogens	4,000 ppm maximum ²

{1} The specification does not apply to mixtures of used oil and hazardous waste that continue to be regulated as hazardous waste (see § 279.10(b)).

{2} Used oil containing more than 1,000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under § 279.10(b)(1). Such used oil is subject to subpart H of part 266 of this chapter rather than 40 CFR 279 when burned for energy recovery unless the presumption of mixing can be successfully rebutted.

[40 CFR 279.11]

10.10.2 Analysis of Used Oil Fuel

A generator, transporter, processor/re-refiner, or burner may determine that used oil that is to be burned for energy recovery meets the fuel specifications of Permit Condition 10.10.1 by performing analyses or obtaining copies of analyses or other information documenting that the used oil fuel meets the specifications.

[40 CFR 279.72(a)]

10.10.3 Record Retention

A generator, transporter, processor/re-refiner, or burner who first claims that used oil that is to be burned for energy recovery meets the specifications for used oil fuel under Permit Condition 10.10.1 must keep copies of analyses of the used oil (or other information used to make the determination) for three years.

[40 CFR 279.72(b)]

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10.10.4 On-specification Used Oil Delivery

A generator, transporter, processor/re-refiner, or burner who first claims that used oil that is to be burned for energy recovery meets the fuel specifications under Permit Condition 10.10.1 must keep a record of each shipment of used oil to an on-specification used oil burner. Records for each shipment must include the following information:

- (1) The name and address of the facility receiving the shipment.
- (2) The quantity of used oil fuel delivered.
- (3) The date of shipment or delivery.
- (4) A cross-reference to the record of used oil analysis or other information used to make the determination that the oil meets the specification as required under Permit Condition 10.10.2.
- (5) Record retention. The records described in paragraph 10.10.4 must be maintained for at least three years.

[40 CFR 279.74(b)]

10.11 Other Tests

- 10.11.1** The permittee shall conduct compliance tests on kiln No. 1 and kiln No. 2 to verify compliance with SO₂ and benzo(a)pyrene emissions limits in Permit Condition 10.1. The tests shall be performed in accordance with the procedures in Permit Condition 2.15 or a Department-approved alternative method, within 180 days of issuance of the permit.

If the emissions rate measured in the initial compliance test is less than or equal to 75% of the emissions standard in Permit Condition 10.1, no further testing shall be required during the life of the permit. If the emissions rate measured during the compliance test is greater than 75%, but less than or equal to 90% of the emissions standard in Permit Condition 10.1, a second test shall be required in the third year of the permit term. If the SO₂ and benzo(a)pyrene emissions rate measured during the compliance test is greater than 90% of the emissions standard in Permit Condition 10.1, the permittee shall conduct a compliance test annually.

[IDAPA 58.01.01.322.09, 5/1/94]

- 10.11.2** The permittee shall demonstrate compliance with the organic HAP and VOC emissions limitation by performing annual EPA Method 25A compliance tests on kiln No. 1 and kiln No. 2 while burning tires. The annual compliance tests will develop emissions factors for each kiln to be used during the following 12-month period to determine compliance with the annual emissions limitation for total organic HAPs from the kilns. Annual organic HAP emissions from the kilns shall be determined by the following equations:

Kiln No. 1

Kiln No.1 organic HAP emissions (T/yr) = [Kiln No. 1 emissions rate (lb/hr, Method 25A)/Kiln No.1 tire feed rate during test (T/hr)] x [rolling 12 month Kiln No.1 tire feed (lb/yr)/2000]

Kiln No. 2

Kiln No.2 organic HAP emissions (T/yr) = [Kiln No.2 emissions rate (lb/hr, Method 25A)/Kiln No.2 tire

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feed rate during test (T/hr)] x [rolling 12 month Kiln No.2 tire feed (lb/yr)/2000]

Total kiln organic HAP emissions (T/yr) = Kiln No.1 organic HAP emissions (T/yr) + Kiln No.2 organic HAP emissions (T/yr)

[Consent Order, Condition 21H, 6/10/02]

10.11.3 The following operating data shall be recorded during each performance test:

- Amount of material fed (dry basis)
- Type and amount of fuels used
- Multiclone pressure drop

**[Tier II Permit No. 005-00004, Condition 3.5.1, 12/8/97;
IDAPA 58.01.01.322.09, 5/1/94]**

10.11.4 During the performance test, the following operating parameters for each field in each chamber of the ESP shall be recorded:

- Primary voltage
- Primary current
- Secondary voltage
- Secondary current
- Pressure drop
- Rapper intensity and frequency

**[Tier II Permit No. 005-00004, Condition 3.5.2, 12/8/97;
IDAPA 58.01.01.322.09, 5/1/94]**

Monitoring & Recordkeeping Requirements

10.12 The permittee shall install, calibrate, maintain, and operate monitoring devices for the measurement of operating parameters for the No.1 and No.2 kilns. The following operating parameters shall be monitored and recorded while each kiln is operating:

- Daily summary of the amount of material fed to each kiln (dry basis)
- Daily production rates
- Daily summary of the type and amount of fuels used

**[Tier II Permit No. 005-00004, Condition 3.1, 12/8/97;
40 CFR 60.63(a)]**

10.13 The permittee shall install, calibrate, maintain, and operate monitoring devices for the measurement of operating parameters for each field in each chamber of the No.1 and No.2 kiln ESPs. The following operating parameters shall be monitored and recorded once per day while each kiln is operating:

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- Primary voltage
- Primary current.
- Secondary voltage.
- Secondary current.
- Pressure drop.
- Rapper intensity and frequency.
- The time when these parameters were monitored.

[Tier II Permit No. 005-00004, Condition 3.2, 12/8/97]

- 10.14 When used oil is being used as fuel, the permittee shall have the used oil certified by the supplier and abide by the recordkeeping and analytical requirements, as required under Permit Condition 10.10.

[Tier II Permit No. 005-00004, Condition 3.3, 12/8/97]

- 10.15 When coal is being used as fuel, the permittee shall have the coal sampled and analyzed by the supplier for total sulfur and shall maintain records of this data on a monthly basis.

[Tier II Permit No. 005-00004, Condition 3.4, 12/8/97]

- 10.16 The permittee shall record, in a monthly report, the information requested in Permit Conditions 10.12, 10.13, 10.14, 10.15.

[Tier II Permit No. 005-00004, Condition 5.2, 12/8/97]

- 10.17 The owner or operator of each Portland cement plant shall prepare for each affected source subject to the provisions of 40 CFR 63 Subpart LLL, a written operations and maintenance plan. The plan shall be submitted to the Administrator for review and approval as part of the application for a part 70 permit, and shall include the following information:

(1) Procedures for proper operation and maintenance of the affected source and air pollution control devices in order to meet the emissions limits and operating limits of 40 CFR 63.1343 through 63.1348;

(2) Procedures to be used during an inspection of the components of the combustion system of each kiln and each in-line kiln raw mill located at the facility at least once per year

[40 CFR 63.1350(a)]

- 10.17.1 Failure to comply with any provision of the operations and maintenance plan developed in accordance with Permit Condition 10.17 shall be a violation of the standard.

[40 CFR 63.1350(b)]

- 10.17.2 The owner or operator of an affected source subject to a limitation on D/F emissions shall monitor D/F emissions in accordance with the following:

- 1) The owner or operator shall install, calibrate, maintain, and continuously operate a continuous monitor to record the temperature of the exhaust gases from the kiln, in-line kiln/raw mill and alkali bypass, if applicable, at the inlet to, or upstream of, the kiln, in-line kiln/raw mill and/or alkali bypass PM control devices.

- (i) The recorder response range must include zero and 1.5 times either of the average

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temperatures established according to the requirements in 40 CFR 63.1349(b)(3)(iv).

- (ii) The reference method must be a National Institute of Standards and Technology calibrated reference thermocouple-potentiometer system or alternate reference, subject to approval by the Administrator.
- 2) The owner or operator shall monitor and continuously record the temperature of the exhaust gases from the kiln, in-line kiln/raw mill and alkali bypass, if applicable, at the inlet to the kiln, in-line kiln/raw mill and/or alkali bypass PMCD.
- 3) The three-hour rolling average temperature shall be calculated as the average of 180 successive one-minute average temperatures.
- 4) Periods of time when one-minute averages are not available shall be ignored when calculating three-hour rolling averages. When one-minute averages become available, the first one-minute average is added to the previous 179 values to calculate the three-hour rolling average.
- 5) The calibration of all thermocouples and other temperature sensors shall be verified at least once every three months.

[40 CFR 63.1350(f)]

- 10.17.3 The owner or operator of any kiln or in-line kiln/raw mill subject to a D/F emissions limit under 40 CFR 63 Subpart LLL shall conduct an inspection of the components of the combustion system of each kiln or in-line kiln raw mill at least once per year.

[40 CFR 63.1350(i)]

10.18 Nitrogen Oxide Continuous Emission Monitoring

The permittee shall install, calibrate, and operate a continuous emissions monitoring system (CEMS) to monitor and record the rate of NO_x emissions from the ESP stack on Kilns No. 1 and 2. The NO_x CEMS shall use a span appropriate for the actual NO_x concentration in the emissions from Kilns No. 1 and 2. The NO_x CEMS shall be used directly for determining compliance with NO_x emissions limitations. In addition, the permittee shall comply with the following terms and conditions as related to the NO_x CEMS:

- 1) The NO_x CEMS shall be operated in compliance with all applicable provisions of 40 CFR 60.13.
- 2) The installation and initial performance evaluation of the NO_x CEMS shall be done in accordance with 40 CFR 60, Appendix B, and Performance Specification 2. Ash Grove shall conduct the initial performance evaluation no later than 180 days from the effective date of this Consent Order. The results of the initial performance evaluation shall be submitted for Department approval within 30 days of completion of the evaluation. If the Department does not find the results of the initial performance evaluation acceptable, Ash Grove shall repeat the performance evaluation. The initial performance evaluation shall be completed to the Department's satisfaction no later than January 6, 2003.
- 3) The NO_x CEMS shall comply with the quality assurance requirements specified in 40 CFR 60, Appendix F.
- 4) The permittee shall maintain a file containing measurement data and related information for the

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NO_x CEMS. The data and information in the file shall include, but not be limited to, all CEMS output data, copies of all performance evaluation reports, daily calibration drift check data, written quality control procedures, documentation of all adjustments and maintenance on the NO_x CEMS and copies of all information required to be submitted to the Department regarding the NO_x CEMS. The contents of the file shall be recorded in a permanent form suitable for inspection and shall be retained at the facility for at least five years following the date on which the data or information were recorded. The file shall be made available to Department representatives upon request.

[Consent Order, Condition 7, 6/10/02]

10.19 Carbon Monoxide Continuous Emission Monitoring

The permittee shall install, calibrate, and operate a CEMS to monitor and record the rate of CO emissions from the ESP stack on Kilns No. 1 and 2. The CO CEMS shall use a span appropriate for the actual CO concentration in the emissions from Kilns No. 1 and 2. The CO CEMS shall be used directly for determining compliance with CO emissions. In addition, the permittee shall comply with the following terms and conditions as related to the CO Continuous Emission Monitoring:

- 1) The CO CEMS shall be operated in compliance with the applicable provisions of 40 CFR 60.13.
- 2) The installation and initial performance evaluation of the CO CEMS shall be done in accordance with 40 CFR 60, Appendix B, and Performance Specification 4. Ash Grove shall conduct the initial performance evaluation no later than 180 days from the effective date of this Consent Order. The results of the initial performance evaluation shall be submitted for Department approval within 30 days of completion of the evaluation. If the Department does not find the results of the initial performance evaluation acceptable, Ash Grove shall repeat the performance evaluation. The initial performance evaluation shall be completed to the Department's satisfaction no later than January 6, 2003.
- 3) The CO CEMS shall comply with the quality assurance requirements specified in 40 CFR 60, Appendix F.
- 4) The permittee shall maintain a file containing measurement data and related information for the CO CEMS. The data and information in the file shall include, but not be limited to, all CEMS output data, copies of all performance evaluation reports, daily calibration drift check data, written quality control procedures, documentation of all adjustments and maintenance on the CO CEMS and copies of all information required to be submitted to the Department regarding the CO CEMS. The contents of the file shall be recorded in a permanent form suitable for inspection and shall be retained at the facility for at least five years following the date on which the data or information were recorded. The file shall be made available to Department representatives upon request.

[Consent Order, Condition 8, 6/10/02]

10.20 Compliance Assurance Monitoring

The permittee shall demonstrate compliance with the kiln PM emissions by following the approved PM Compliance Demonstration Plan in Appendix C. The content of the PM Compliance Demonstration Plan may only be modified with written approval of the Department. Any such approved modification shall not require modification this permit but shall be a fully enforceable term of the permit.

[Consent Order, Condition 11, 6/10/02]

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10.21 Compliance Date

The compliance date for an owner or operator of an existing affected source subject to the provisions of Subpart LLL is June 14, 2002.

[40 CFR 63.1351(a)]

10.22 Recordkeeping

- (a) The owner or operator shall maintain files of all information (including all reports and notifications) required by this section recorded in a form suitable and readily available for inspection and review as required by 40 CFR 63.10(b)(1). The files shall be retained for at least five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two years of data shall be retained onsite. The remaining three years of data may be retained off site. The files may be maintained on microfilm, on a computer, on floppy disks, on magnetic tape, or on microfiche.
- (b) The owner or operator shall maintain records for each affected source as required by 40 CFR 63.10(b)(2) and (b)(3).
 - (1) All documentation supporting initial notifications and notifications of compliance status under 40CFR 63.9.
 - (2) All records of applicability determination, including supporting analyses.
 - (3) If the owner or operator has been granted a waiver under 40 CFR 63.8(f)(6), any information demonstrating whether a source is meeting the requirements for a waiver of recordkeeping or reporting requirements.
- (c) In addition to the recordkeeping requirements in paragraph (b) of this section, the owner or operator of an affected source equipped with a continuous monitoring system shall maintain all records required by 40 CFR 63.10(c).

[40 CFR 63.1355]

- 10.23 Each owner or operator of a kiln that is subject to the provisions of 40 CFR 60 Subpart F shall install, calibrate, maintain, and operate in accordance with §60.13, a continuous opacity monitoring system to measure the opacity of emissions discharged to the atmosphere from any kiln. A continuous opacity monitoring system shall be installed on each stack of any multiple stack device controlling emissions from any kiln. If there is a separate bypass installed, each owner or operator of a kiln shall also install, calibrate, maintain, and operate a continuous opacity monitoring system on each bypass stack in addition to the main control device stack. Each owner or operator of an affected kiln for which the performance test required under § 60.8 has been completed on or prior to December 14, 1988, shall install the continuous opacity monitoring system within 180 days after December 14, 1988.

[40 CFR 60.63(b)]

- 10.23.1 For the purpose of reports under §60.65, periods of excess emissions that shall be reported are defined as all 6-minute periods during which the average opacity exceeds that allowed by §60.62(a)(2) or §60.62(b)(2).

[40 CFR 60.63(d)]

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10.24 The owner or operator shall determine compliance with the PM standard in 40 CFR 60.62 as follows:

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- (1) The emissions rate (E) of PM shall be computed for each run using the following equation:

$$E = C_s Q_{sd} / (PK)$$

where:

E = emissions rate of PM, kg/metric ton (lb/ton) of kiln feed

C_s = concentration of PM, g/dscm (gr/dscf)

Q_{sd} = volumetric flow rate of effluent gas, dscm/hr (dscf/hr)

P = total kiln feed (dry basis) rate, metric ton/hr (ton/hr)

K = conversion factor, 1000 g/kg (7000 gr/lb)

- (2) Method 5 shall be used to determine the PM concentration (C_s) and the volumetric flow rate (Q_{sd}) of the effluent gas. The sampling time and sample volume for each run shall be at least 60 minutes and 0.85 dscm (30.0 dscf) for the kiln.
- (3) Suitable methods shall be used to determine the kiln feed rate (P), except fuels, for each run. Material balance over the production system shall be used to confirm the feed rate.
- (4) Method 9 and the procedures in 40 CFR 60.11 shall be used to determine opacity.

[40 CFR 60.64(b)]

Reporting

- 10.25 Each owner or operator subject to the requirements of this subpart shall comply with the notification requirements in 40 CFR 63.9 as follows:

- (1) Notification of performance tests, as required by §63.7 and 63.9(e)
- (2) Notification, as required by 40 CFR 63.9(g), of the date that the continuous emissions monitor performance evaluation required by 40 CFR 63.8(e) is scheduled to begin
- (3) Notification of compliance status, as required by 40 CFR 63.9(h)

[40 CFR 63.1353(b)]

- 10.26 The reporting provisions of Subpart A of 40 CFR 63 that apply and those that do not apply to owners or operators of affected sources subject to Subpart LLL are listed in Table 1 of Subpart LLL. Subpart A requirements are listed in Appendix A. If any State requires a report that contains all of the information required in a report listed in this section, the owner or operator may send the Administrator a copy of the report sent to the State to satisfy the requirements of this section for that report.

[40 CFR 63.1354(a)]

- 10.26.1 The owner or operator of an affected source shall comply with the reporting requirements specified in 40 CFR 63.10 of the general provisions of Part 63, Subpart A as follows:

- (1) As required by 40 CFR 63.10(d)(2), the owner or operator shall report the results of performance tests as part of the notification of compliance status.
- (2) Not applicable.

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- (3) As required by 40 CFR 63.10(d)(4), the owner or operator of an affected source who is required to submit progress reports as a condition of receiving an extension of compliance under 40 CFR 63.6(i) shall submit such reports by the dates specified in the written extension of compliance.
- (4) As required by 40 CFR 63.10(d)(5), if actions taken by an owner or operator during a startup, shutdown, or malfunction of an affected source (including actions taken to correct a malfunction) are consistent with the procedures specified in the source's startup, shutdown, and malfunction plan specified in 40 CFR 63.6(e)(3), the owner or operator shall state such information in a semiannual report. Reports shall only be required if a startup, shutdown, or malfunction occurred during the reporting period. The startup, shutdown, and malfunction report may be submitted simultaneously with the excess emissions and continuous monitoring system performance reports.
- (5) Any time an action taken by an owner or operator during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) is not consistent with the procedures in the startup, shutdown, and malfunction plan, the owner or operator shall make an immediate report of the actions taken for that event within two working days, by telephone call or facsimile (FAX) transmission. The immediate report shall be followed by a letter, certified by the owner or operator or other responsible official, explaining the circumstances of the event, the reasons for not following the startup, shutdown, and malfunction plan, and whether any excess emissions and/or parameter monitoring exceedances are believed to have occurred.
- (6) As required by 40 CFR 63.10(e)(2), the owner or operator shall submit a written report of the results of the performance evaluation for the continuous monitoring system required by 40 CFR 63.8(e). The owner or operator shall submit the report simultaneously with the results of the performance test.
- (7) As required by 40 CFR 63.10(e)(2), the owner or operator of an affected source using a continuous opacity monitoring system to determine opacity compliance during any performance test required under 40 CFR 63.7 and described in 40 CFR 63.6(d)(6) shall report the results of the continuous opacity monitoring system performance evaluation conducted under 40 CFR 63.8(e).
- (8) As required by 40 CFR 63.10(e)(3), the owner or operator of an affected source equipped with a continuous emissions monitor shall submit an excess emissions and continuous monitoring system performance report for any event when the continuous monitoring system data indicate the source is not in compliance with the applicable emissions limitation or operating parameter limit.
- (9) The owner or operator shall submit a summary report semiannually which contains the information specified in 40 CFR 63.10(e)(3)(vi). In addition, the summary report shall include:
 - (i) All exceedances of maximum control device inlet gas temperature limits specified in 40 CFR 63.1344(a) and (b).
 - (ii) All failures to calibrate thermocouples and other temperature sensors as required under 40 CFR 63.1350(f)(7).
 - (iii) The results of any combustion system component inspections conducted within the reporting period as required under 40 CFR 63.1350(i).
 - (iv) All failures to comply with any provision of the operation and maintenance plan developed in

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accordance with 40 CFR 63.1350(a).

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- (10) If the total continuous monitoring system downtime for any CEM or any continuous monitoring system (CMS) for the reporting period is 10% or greater of the total operating time for the reporting period, the owner or operator shall submit an excess emissions and continuous monitoring system performance report along with the summary report.

[40 CFR 63.1354(b)]

- 10.27 Except as provided in paragraph (1) of this section, any affected source subject to the provisions of Subpart LLL is exempted from any otherwise applicable new source performance standard contained in 40 CFR Part 60, Subpart F or Subpart OOO.

- (1) Kilns and in-line kiln/raw mills, as applicable under 40 CFR 60.60(b), located at area sources are subject to PM and opacity limits and associated reporting and recordkeeping, under 40 CFR part 60, Subpart F.

[40 CFR 63.1356(a)]

- 10.28 Each owner or operator required to install a continuous opacity monitoring system under § 60.63(b) shall submit reports of excess emissions as defined in § 60.63(d). The content of these reports must comply with the requirements in § 60.7(c). Notwithstanding the provisions of § 60.7(c), such reports shall be submitted semiannually.

[40 CFR 60.65(a)]

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Date Expires: December 17, 2007*The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.***11. NO. 1 AND NO. 2 CLINKER COOLERS AND CLINKER HANDLING SYSTEM****Summary Description**

The following is a narrative description of the No. 1 and No. 2 clinker coolers and clinker handling system regulated in this Tier I operating permit. This description is for informational purposes only.

The No.1 and No.2 clinker coolers reduce the temperature of clinker received from the No.1 and No.2 kilns by air cooling. The clinker handling system transfers clinker from the No. 1 and No. 2 clinker coolers to the clinker storage area or clinker silos.

Emissions associated with all clinker transfer points, the No.1 kiln to the No.1 drag chain and the No.2 kiln to the No.2 drag chain, are controlled by being enclosed, under negative pressure, and being vented through the kilns. Emissions associated with the transfer of clinker from the No. 1 and No. 2 drag chains to the No. 3 drag chain are controlled by enclosure and by a baghouse (BH1). Emissions associated with the transfer of clinker from the No. 3 drag chain to the No. 1 clinker elevator or to the No. 4 drag chain are controlled by enclosure and a baghouse (BH1). Emissions from the transfer points of the No. 4 drag chain to the No. 2 elevator to the No. 5 drag chain and into storage silos are controlled by being enclosed and by a baghouse (BH2). Emissions associated with the transfer of clinker from the No. 1 elevator to the No. 7 drag chain on to the stacking pipe are controlled by enclosure and by a baghouse (BH1). Emissions from the drag No. 7 stacking pipe to the clinker storage area are controlled by partial enclosure. Emissions of the transfer points from the No. 1 elevator to the stacker belt on to the belt stacker are controlled by enclosure and two baghouses (BH1 and BH3). Partial enclosure and a baghouse (BH3) control emissions of the transfer points from the belt stacker pipe to the clinker storage. Emissions from the No. 1 elevator to the clinker storage area are controlled by partial enclosure.

Table 11.1 describes the devices used to control emissions from the No.1 and No.2 clinker coolers and clinker handling system.

Table 11.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Source Codes	Emissions Unit(s) / Process(es)	Emissions Control Device
F43	Transfer point, No. 1 kiln to cooler	Enclosed, under negative pressure to kiln
F44	Cooler to No. 2 drag chain	Enclosed, under negative pressure to kiln
F47	Transfer point, No. 2 kiln to cooler	Enclosed, under negative pressure to kiln
F48	Cooler to No. 2 drag chain	Enclosed, under negative pressure to kiln
F45	No. 1 drag to No. 3 drag	Baghouse No. 1
F49	No. 2 drag to No. 3 drag	Baghouse No. 1
F50	No. 3 drag to clinker elevator	Baghouse No. 1
F51	Clinker elevator to plenum box	Baghouse No. 1
F52	Plenum box to bin	Baghouse No. 1
F56, F57, F58, F59, F60	Transfer from No. 4 drag chain to the No. 2 elevator to the No. 5 drag chain and into storage silos	Baghouse No. 2
F62, F63	Transfer points from the No. 1 elevator to the stacker belt on to the belt stacker	Baghouse No. 1 and baghouse No. 3
F64	Transfer points from the belt stacker pipe to the clinker storage	Partial enclosure and baghouse No. 3
F65	Emissions from the drag No. 7 stacking pipe to the clinker storage area	Partial enclosure
F65a	Transfer from No. 1 elevator to the clinker storage area	Partial enclosure

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee: Ash Grove Cement Co.
Location: Inkom, Idaho

Project No. T1-9508-132-1

Date Issued: December 17, 2002
Date Expires: December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee: Ash Grove Cement Co.	Project No. T1-9508-132-1	Date Issued: December 17, 2002
Location: Inkom, Idaho		Date Expires: December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

Table 11.2 contains a summary of the requirements that apply to the No.1 and No.2 clinker coolers and clinker handling system. Specific permit requirements are listed below Table 11.2.

Table 11.2 APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Affected Unit	Parameter	Permit Limits / Standard Summary	Applicable Requirements Reference	Monitoring & Recordkeeping Requirements
11.1	BH1	PM PM ₁₀	PM – 2.26 lb/hr, 9.91 T/yr PM ₁₀ – 1.92 lb/hr, 8.42 T/yr	PTC No. 005-00004, Condition 1.1	11.5, 11.6, 11.7, 11.8
11.1	BH2	PM PM ₁₀	PM – 1.44 lb/hr, 0.32 T/yr PM ₁₀ – 1.22 lb/hr, 0.27 T/yr	PTC No. 005-00004, Condition 1.1	11.5, 11.6, 11.7, 11.8
11.1	BH3	PM PM ₁₀	PM – 0.51 lb/hr, 2.14 T/yr PM ₁₀ – 0.44 lb/hr, 1.82 T/yr	PTC No. 005-00004, Condition 1.1	11.5, 11.6, 11.7, 11.8
11.2	Clinker storage, conveyor transfer points, and bulk loading and unloading systems	Visible emissions	10% Opacity	PTC No. 005-00004, Condition 1.2; 40 CFR 60.62(c)	11.11, 11.12
11.3	Clinker handling system	Fugitive emissions	Reasonable control PM – 33.25 lb/hr, 16.84 T/yr PM ₁₀ – 7.47 lb/hr, 6.75 T/yr	PTC No. 005-00004, Condition 1.4	11.9, 11.10
11.4	Clinker handling system	Particulate matter	Process weight	IDAPA 58.01.01.702	None required

Permit Limits / Standard Summary

11.1 Baghouses BH1, BH2, and BH3

The PM and PM₁₀ emissions from baghouses identified as BH1, BH2, and BH3 shall not exceed the emissions limits in Table 11.3.

Table 11.3 EMISSION LIMITS

Emissions Unit	PM		PM ₁₀	
	lb/hr	T/yr	lb/hr	T/yr
Baghouse 1 (BH1)	2.26	9.91	1.92	8.42
Baghouse 2 (BH2)	1.44	0.32	1.22	0.27
Baghouse 3 (BH3)	0.51	2.14	0.44	1.82

[PTC No. 005-00004, Condition 1.1, 01/29/99]

11.2 Clinker Storage, Conveyor Transfer Points, and Bulk Loading and Unloading Systems Opacity Limit

In accordance with 40 CFR 60.62(c), the permittee shall not cause to be discharged to the atmosphere from any affected facility any gases which exhibit 10% opacity, or greater.

[PTC No. 005-00004, Condition 1.2, 01/29/99; 40 CFR 60.62(c)]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee: Ash Grove Cement Co.
Location: Inkom, Idaho

Project No. T1-9508-132-1

Date Issued: December 17, 2002
Date Expires: December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

11.3 Fugitive Emissions

The PM and PM₁₀ fugitive emissions shall be reasonably controlled, as required in IDAPA 58.01.01.650 and 651. The PM emissions shall not exceed 33.25 lb/hr and 16.84 T/yr, and PM₁₀ emissions shall not exceed 7.47 lb/hr and 6.75 T/yr.

[PTC No. 005-00004, Condition 1.4, 01/29/99]

11.4 No person shall emit into the atmosphere from any process or process equipment commencing operation prior to October 1, 1979, PM in excess of the amount shown by the following equations, where E is the allowable emissions from the entire source in pounds per hour, and PW is the process weight in pounds per hour.

a. If PW is less than 17,000 lb/hr,

$$E = 0.045(PW)^{0.6}$$

b. If PW is equal to or greater than 17,000 lb/hr,

$$E = 1.12(PW)^{0.27}$$

[IDAPA 58.01.01.702, 4/5/00]

OPERATING REQUIREMENTS

11.5 Monitoring Equipment

The permittee shall install, calibrate, maintain, and operate, in accordance with manufacturer's specifications, equipment to continuously measure the pressure differential across the air pollution control equipment.

[PTC No. 005-00004, Condition 2.2, 01/29/99]

11.6 Operations and Maintenance Manual Requirements

Within 60 days after startup, the permittee shall have developed an O&M manual for each of the baghouses listed in Permit Condition 11.1 that describes the procedures that will be followed to comply with General Provision 28 and the air pollution control device requirements contained in this permit. The manual shall remain onsite at all times and shall be made available to Department representatives upon request.

[PTC No. 005-00004, Condition 2.3, 01/29/99]

11.7 Pressure Drop Across Air Pollution Control Device

The pressure drop across the air pollution control device shall be maintained within manufacturer and O&M manual specifications. Documentation of both manufacturer and O&M manual operating pressure drop specifications shall remain onsite at all times and shall be made available to Department representatives upon request.

[PTC No. 005-00004, Condition 2.4, 01/29/99]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee: Ash Grove Cement Co.
Location: Inkom, Idaho

Project No. T1-9508-132-1

Date Issued: December 17, 2002
Date Expires: December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

Monitoring & Recordkeeping Requirements

11.8 Baghouse Pressure Drop

The permittee shall record the pressure drop across each baghouse on a weekly basis. The pressure drop shall be recorded as inches of water (H₂O) and the records shall be kept at the facility for the most recent five-year period. The records shall be made available to Department representatives upon request.

[PTC No. 005-00004, Condition 3.1, 01/29/99]

11.9 Reasonable Control Measures

The permittee shall monitor and record, during operation, the periodic method(s) used to reasonably control emissions from this facility. The records shall include the type of control used (i.e., water, environmentally safe chemical dust suppressants, etc.), as well as the circumstances under which no controls are used.

[PTC No. 005-00004, Condition 3.2, 01/29/99]

11.10 Clinker Production

The permittee shall monitor and record the amount of clinker produced by each kiln daily. The amount of clinker produced shall be recorded in tons per day and kept at the facility for the most recent five-year period. The records shall be made available to Department representatives upon request.

[PTC No. 005-00004, Condition 3.3, 01/29/99]

11.11 The maximum allowable operating rate shall be limited to 120% of the average operating rate attained during any performance test period, for which a test protocol has been granted prior approval by the Department, unless (1) the test demonstrates noncompliance; (2) a more restrictive operating limit is specified elsewhere in this permit; or (3) at such an operating rate emissions would exceed any emissions limit(s) set forth in this permit.

[General Provision F, PTC No. 005-00004, 01/29/99]

11.12 The permittee shall comply with the requirements in Appendix B.

[40 CFR 60, Subpart A]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004**Permittee:** Ash Grove Cement Co.
Location: Inkom, Idaho**Project No.** T1-9508-132-1**Date Issued:** December 17, 2002
Date Expires: December 17, 2007*The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.***12. CLINKER RECLAIM****Summary Description**

The following is a narrative description of the clinker reclaim process regulated in this Tier I operating permit. This description is for informational purposes only.

The clinker reclaim process transfers clinker from the clinker storage area and clinker storage silos to the No. 1, No. 2, and No. 3 clinker feed bins.

Emissions associated with the transfer points from the clinker storage area and the clinker silos (No. 1, No. 2, and No. 3) to the No. 3 clinker reclaim belt, including transfers to and from the No. 1 and No. 2 clinker reclaim belts, are controlled by an enclosure and a baghouse (BH4). Emissions associated with all clinker transfer points from the No. 3 reclaim belt to the No. 1, No. 2, and No. 3 clinker feed bins, including transfers to and from the No. 3 clinker elevator and the clinker drag chain, are controlled by baghouse BH6.

Table 12.1 describes the devices used to control clinker reclaim emissions.

Table 12.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Source Codes	Emissions Unit(s) / Process(es)	Emissions Control Devices
F65A, F65, F66, F67, F68, F69, F70, F71, F72, F73, F74, F75, F76	Transfer points from the clinker storage area, and from the clinker silos (No. 1, No. 2, and No. 3), to the No. 3 clinker reclaim belt, including transfers to and from the No. 1 and No. 2 clinker reclaim belts	Baghouse No. 4
F77, F78, F79, F80, F81	Transfer points from the No. 3 reclaim belt to the No. 1, No. 2, and No. 3 clinker feed bins, including transfers to and from the No. 3 clinker elevator and the clinker drag chain	Baghouse No. 6

Table 12.2 contains a summary of the requirements that apply to the clinker reclaim. Specific permit requirements are listed below Table 12.2.

Table 12.2 APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Affected Unit	Parameter	Permit Limits / Standards Summary	Applicable Requirements Reference	Monitoring & Recordkeeping Requirements
12.1	BH4	PM PM ₁₀	PM – 0.32 lb/hr, 0.61 T/yr PM ₁₀ – 0.27 lb/hr, 0.52 T/yr	PTC No. 005-00004, Condition 1.1	12.5, 12.6, 12.7, 12.9
12.1	BH6	PM PM ₁₀	PM – 0.63 lb/hr, 2.78 T/yr PM ₁₀ – 0.54 lb/hr, 2.36 T/yr	PTC No. 005-00004, Condition 1.1	12.5, 12.6, 12.7, 12.9
12.2	Fugitive emissions	PM, PM ₁₀	Reasonable control PM – 0.17 lb/hr, 0.77 T/yr PM ₁₀ – 0.09 lb/hr, 0.38 T/yr	PTC No. 005-00004, Condition 1.1; IDAPA 58.01.01.650	12.8, 12.10, 12.11
12.3	Clinker storage, conveyor transfer points, and bulk loading and unloading systems	Visible emissions	10% Opacity	40 CFR 60.62(c); PTC No. 005-00004, Condition 1.2	12.12, 12.13
12.4	Clinker reclaim				None required

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee: Ash Grove Cement Co.
Location: Inkom, Idaho

Project No. T1-9508-132-1

Date Issued: December 17, 2002
Date Expires: December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

	process	Particulate matter	Process weight	IDAPA 58.01.01.702	
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AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004**Permittee:** Ash Grove Cement Co.
Location: Inkom, Idaho**Project No.** T1-9508-132-1**Date Issued:** December 17, 2002
Date Expires: December 17, 2007*The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.****Permit Limits / Standard Summary*****12.1 BH4 and BH6**

The PM and PM₁₀ emissions from baghouses identified as BH4 and BH6 stacks shall not exceed the emissions limits listed in Table 12.3.

Table 12.3 EMISSIONS LIMITS

Emissions Unit	PM		PM ₁₀	
	lb/hr	T/yr	lb/hr	T/yr
Baghouse 4 (BH4)	0.32	0.61	0.27	0.52
Baghouse 6 (BH6)	0.63	2.78	0.54	2.36

[PTC No. 005-00004, Condition 1.1, 01/29/99]**12.2 Fugitive Emissions**

The PM and PM₁₀ fugitive emissions shall be reasonably controlled, as required in IDAPA 58.01.01.650 and 651. The PM emissions shall not exceed 0.17 lb/hr and 0.77 T/yr, and PM₁₀ emissions shall not exceed 0.09 lb/hr and 0.38 T/yr.

[PTC No. 005-00004, Condition 1.4, 01/29/99; IDAPA 58.01.01.650]**12.3 Clinker Storage, Conveyor Transfer Points, and Bulk Loading and Unloading Systems Opacity Limit**

In accordance with 40 CFR 60.62(c), the permittee shall not cause to be discharged to the atmosphere from any affected facility any gases which exhibit 10% opacity, or greater. Opacity shall be determined using the procedures specified in IDAPA 58.01.01.625.

[PTC No. 005-00004, Condition 1.2, 01/29/99; 40 CFR 60.62(c)]**12.4 Process Weight Particulate Matter Limitation**

No person shall emit to the atmosphere from any process or process equipment commencing operation prior to October 1, 1979, PM in excess of the amount shown by the following equations, where E is the allowable emissions from the entire source in pounds per hour, and PW is the process weight in pounds per hour.

- a. If PW is less than 17,000 lb/hr,

$$E = 0.045(PW)^{0.6}$$

- b. If PW is equal to or greater than 17,000 lb/hr,

$$E = 1.12(PW)^{0.27}$$

[IDAPA 58.01.01.702, 4/5/00]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee: Ash Grove Cement Co.
Location: Inkom, Idaho

Project No. T1-9508-132-1

Date Issued: December 17, 2002
Date Expires: December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

OPERATING REQUIREMENTS

12.5 Monitoring Equipment

The permittee shall install, calibrate, maintain, and operate, in accordance with manufacturer specifications, equipment to continuously measure the pressure differential across the air pollution control equipment.

[PTC No. 005-00004, Condition 2.2, 01/29/99]

12.6 Operations and Maintenance Manual Requirements

Within 60 days after startup, the permittee shall have developed an O&M manual for each of the baghouses listed in Permit Condition 12.1 that describes the procedures that will be followed to comply with General Provision 28 and the air pollution control device requirements contained in this permit. The manual shall remain onsite at all times and shall be made available to Department representatives upon request.

[PTC No. 005-00004, Condition 2.3, 01/29/99]

12.7 Pressure Drop Across Air Pollution Control Device

The pressure drop across the air pollution control device shall be maintained within manufacturer or O&M manual specifications. Documentation of both manufacturer or O&M manual operating pressure drop specifications shall remain onsite at all times and shall be made available to Department representatives upon request.

[PTC No. 005-00004, Condition 2.4, 01/29/99; IDAPA 58.01.01.322.06, 5/1/94]

12.8 Clinker Reclaim Process Rates

The clinker reclaim process rates shall not exceed 77 T/hr on a monthly average basis, and 382,737 T/yr.

[PTC No. 005-00004, Condition 2.6, 01/29/99]

Monitoring & Recordkeeping Requirements

12.9 Baghouse Pressure Drop

The permittee shall record the pressure drop across each baghouse on a weekly basis. The pressure drop shall be recorded as inches of water (H₂O) and the records shall be kept at the facility for the most recent five-year period. The records shall be made available to Department representatives upon request.

[PTC No. 005-00004, Condition 3.1, 01/29/99]

12.10 Reasonable control Measures

The permittee shall monitor and record, during operation, the periodic method(s) used to reasonably control emissions from this facility. The records shall include the type of control used (i.e., water, environmentally safe chemical dust suppressants, etc.), as well as the circumstances under which no controls are used.

[PTC No. 005-00004, Condition 3.2, 01/29/99]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee: Ash Grove Cement Co.
Location: Inkom, Idaho

Project No. T1-9508-132-1

Date Issued: December 17, 2002
Date Expires: December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

12.11 Clinker Reclaim

The permittee shall monitor and record the amount of clinker processed by finish grinding mills No. 1, No. 2, and No. 3 to demonstrate compliance with Permit Condition 12.8. The process rate for each mill shall be recorded as tons per day and kept at the facility for the most recent five-year period. The records shall be made available to Department representatives upon request.

[PTC No. 005-00004, Condition 3.4, 01/29/99]

12.12 The maximum allowable operating rate shall be limited to 120% of the average operating rate attained during any performance test period, for which a test protocol has been granted prior approval by the Department, unless (1) the test demonstrates noncompliance; (2) a more restrictive operating limit is specified elsewhere in this permit; or (3) at such an operating rate emissions would exceed any emissions limit(s) set forth in this permit.

[PTC No. 005-00004, General Provision F, 01/29/99]

Reporting

12.13 The permittee shall comply with the requirements in Appendix B.

[40 CFR 60, Subpart A]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004**Permittee:** Ash Grove Cement Co.
Location: Inkom, Idaho**Project No.** T1-9508-132-1**Date Issued:** December 17, 2002
Date Expires: December 17, 2007*The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.***13. FINISH GRINDING AND ASSOCIATED HANDLING****Summary Description**

The following is a narrative description of the finish grinding sources regulated in this Tier I operating permit. This description is for informational purposes only.

The finish grinding mills No. 1, No. 2, and No. 3 process clinker and gypsum into cement. The mills receive material from the clinker bins and the gypsum bin by conveyor. The two materials are ground, and conveyed by the elevator to the separator. (The No. 1 and No. 2 mills go to the No. 1 separator, and the No. 3 mill uses the No. 2 separator). The separator removes oversized particles and reintroduces them to the mill, and transfers the cement of appropriate size to the cement cooler. The No. 1 and No. 2 mills utilize two cement coolers in series (No. 1 and No. 2) the No. 3 mill has its own cement cooler (No. 3). Cement is transferred from the cement cooler by FK pump to one of 19 storage silos.

Emissions associated with the transfer of material to and from the following: Mill No. 1 and mill No. 2, No. 1 cement elevator, No. 1 separator, and No. 1 and No. 2 cement coolers (in series) are controlled by Baghouse 7 (BH7) and through enclosure in a building. Emissions associated with the transfer of gypsum are controlled only by an enclosure.

Emissions associated with the transfer of material to and from the following: Mill No. 3, No. 2 cement elevator, No. 2 separator, and (No. 3) cement cooler are controlled by BH8 and through enclosure in a building. Emissions associated with the transfer of cement to cement silos No. 1 through No. 14 are controlled by BH9. Emissions associated with the transfer of cement to cement silos No. 21 through No. 25 are controlled by BH3.

Table 13.1 describes the devices used to control finish grinding and associated handling emissions.

Table 13.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Source Code	Emissions Unit(s) / Process(es)	Emissions Control Device
F110-F114 F115-F119 F120-F129	Mill No. 1 and mill No. 2, No. 1 cement elevator, No. 1 separator, and No. 1 and No. 2 cement coolers (in series)	Baghouse No. 7
F112, F112a F117, F117a F134, F134a	Transfer of gypsum	Enclosure
F130-F136 F137-F144	Mill No. 3, No. 2 cement elevator, No. 2 separator, and (No. 3) cement cooler	Baghouse No. 8
F145-F158	Transfer of cement to cement silos No. 1 through No. 14	Baghouse No. 9
F159-F172	Transfer of cement to cement silos No. 21 through No. 25	Baghouse No. 3

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee: Ash Grove Cement Co.
Location: Inkorn, Idaho

Project No. T1-9508-132-1

Date Issued: December 17, 2002
Date Expires: December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

Table 13.2 contains a summary of the requirements that apply to the finish grinding and associated handling sources. Specific permit requirements are listed below Table 13.2.

Table 13.2 APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Affected Unit	Parameter	Permit Limit / Standard Summary	Applicable Requirements Reference	Monitoring & Recordkeeping Requirements
13.1.1	BH7	PM, PM ₁₀	PM – 1.59 lb/hr, 5.21 T/yr PM ₁₀ – 1.35 lb/hr, 4.43 T/yr	Tier II Permit No. 005-00004, Condition 2.1.1	13.5, 13.6, 13.7, 13.9
13.1.1	BH8	PM, PM ₁₀	PM – 2.09 lb/hr, 6.86 T/yr PM ₁₀ – 1.78 lb/hr, 5.83 T/yr	Tier II Permit No. 005-00004, Condition 2.1.1	13.5, 13.6, 13.7, 13.9
13.1.1	BH9	PM, PM ₁₀	PM – 2.82 lb/hr, 9.26 T/yr PM ₁₀ – 2.40 lb/hr, 7.87 T/yr	Tier II Permit No. 005-00004, Condition 2.1.1	13.5, 13.6, 13.7, 13.9
13.1.2	BH5, BH6, BH7	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	Tier II Permit No. 005-00004, Condition 2.1.2; IDAPA 58.01.01.625	2.8
13.2	Fugitive emissions	PM, PM ₁₀	Reasonable control PM – 3.19 lb/hr, 5.24 T/yr PM ₁₀ – 1.53 lb/hr, 2.41 T/yr	Tier II Permit No. 005-00004, Condition 2.2; IDAPA 58.01.01.650	13.4, 13.8, 13.9
13.3	Finish grinding process	Particulate matter	Process weight	IDAPA 58.01.01.702	None required

Permit Limits / Standard Summary

13.1 Baghouses BH7, BH8, BH9

13.1.1 The PM and PM₁₀ emissions from BH7, BH8, and BH9 shall not exceed the emissions limits in Table 13.3.

Table 13.3 EMISSION LIMITS

Emissions Unit	PM		PM ₁₀	
	lb/hr	T/yr	lb/hr	T/yr
Baghouse 7 (BH7)	1.59	5.21	1.35	4.43
Baghouse 8 (BH8)	2.09	6.86	1.78	5.83
Baghouse 9 (BH9)	2.82	9.26	2.40	7.87

[Tier II Permit No. 005-00004, Condition 2.1.1, 12/8/97; PTC No. 005-00004, 1/29/99]

13.1.2 Visible emissions from each baghouse stack shall not exceed 20% opacity for a period or periods aggregating no more than three minutes in any 60-minute period as required in IDAPA 58.01.01.625 and as determined using the Department's "Procedure's Manual for Air Pollution Control."

[Tier II Permit No. 005-00004, Condition 2.1.2, 12/8/97; IDAPA 58.01.01.625, 4/5/00]

13.2 Fugitive Emissions

The PM and PM₁₀ fugitive emissions shall be reasonably controlled, as required in IDAPA 58.01.01.650 and 651. The PM emissions shall not exceed 3.19 lb/hr and 5.24 T/yr, and PM₁₀ emissions shall not exceed 1.53 lb/hr and 2.41 T/yr.

[Tier II Permit No. 005-00004, Condition 2.2, 12/8/97; IDAPA 58.01.01.650, 5/1/94]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee: Ash Grove Cement Co.
Location: Inkom, Idaho

Project No. T1-9508-132-1

Date Issued: December 17, 2002
Date Expires: December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

13.3 No person shall emit into the atmosphere from any process or process equipment commencing operation prior to October 1, 1979, PM in excess of the amount shown by the following equations, where E is the allowable emissions from the entire source in pounds per hour, and PW is the process weight in pounds per hour.

a. If PW is less than 17,000 lb/hr,

$$E = 0.045(PW)^{0.6}$$

b. If PW is equal to or greater than 17,000 lb/hr,

$$E = 1.12(PW)^{0.27}$$

[IDAPA 58.01.01.702, 4/5/00]

OPERATING REQUIREMENTS

13.4 Process Rates

Each of three finish mills shall process no more than 77 T/hr on a monthly average basis, and 382,737 tons of total cement annually.

[Tier II Permit No. 005-00004, Condition 4.1, 12/8/97]

13.5 Baghouse Specifications

Each baghouse shall be operated and maintained in accordance with Ash Grove's Dust Collector Maintenance Plan attached as Appendix E. This plan specifies pressure drop ranges for operation of the baghouses at the facility. The content of the Plan may only be modified with written approval of the Department. Modifications of the Plan shall not require modification of the Tier I operating permit and any approved modification of the Plan shall become a condition of this Tier I operating permit as though fully incorporated herein.

[Tier II Permit No. 005-00004, Condition 4.2, 12/8/97; Consent Order, Condition 17, 6/10/02]

13.6 Baghouse Maintenance

The permittee shall perform corrective maintenance within 48 hours of observing any visible emissions from any baghouse stack or baghouse structure.

[Consent Order, Condition 14, 6/10/02]

Monitoring & Recordkeeping Requirements

13.7 The permittee shall record the pressure drop, in inches of water, across BH7, BH8, and BH9 weekly and visual observations daily.

[Tier II Permit No. 005-00004, Condition 3.1, 12/8/97]

13.8 The permittee shall record the amount of cement, in tons, processed by each mill daily.

[Tier II Permit No. 005-00004, Condition 3.2, 12/8/97]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee:	Ash Grove Cement Co.	Project No.	T1-9508-132-1	Date Issued:	December 17, 2002
Location:	Inkom, Idaho			Date Expires:	December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

- 13.9 The permittee shall record daily the information requested in Permit Conditions 13.7 and 13.8. These records shall be maintained on file by the permittee for a minimum period of five years, and shall be made available to Department representatives upon request.

[Tier II Permit No. 005-00004, Condition 5, 12/8/97]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004**Permittee:** Ash Grove Cement Co.
Location: Inkom, Idaho**Project No.** T1-9508-132-1**Date Issued:** December 17, 2002
Date Expires: December 17, 2007*The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.***14. CEMENT LOADOUT****Summary Description**

The following is a narrative description of the cement loadout process regulated in this Tier I operating permit. This description is for informational purposes only.

Cement is transferred from storage silos to railcar, truck, or packaging by a combination of screws, airslides, and elevators.

Table 14.1 describes the devices used to control cement loadout emissions.

Table 14.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Source Code	Emissions Unit(s) / Process(es)	Emissions Control Device
F196-F238	Emissions associated with truck loadouts and truck loading tanks A, B, and C/D, and the transfer points within those parameters	Baghouse 10
F173-F195	All other cement activity between the FK pumps and truck loading tanks	Baghouse 9

Table 14.2 contains a summary of the requirements that apply to the cement loadout. Specific permit requirements are listed below Table 14.2.

Table 14.2 APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Affected Unit	Parameter	Permit Limit / Standard Summary	Applicable Requirements Reference	Monitoring & Recordkeeping Requirements
14.1.1	BH10	PM, PM ₁₀	PM – 0.31 lb/hr, 0.67 T/yr PM ₁₀ - 0.26 lb/hr, 0.57 T/yr	Tier II Permit No. 005-00004, Condition 2.1.1	14.4, 14.5, 14.7
14.1.1	BH9	PM, PM ₁₀	PM – 2.82 lb/hr, 9.26 T/yr PM ₁₀ – 2.40 lb/hr, 7.87 T/yr	Tier II Permit No. 005-00004, Condition 2.1.1	14.4, 14.5, 14.7
14.1.2	BH9, BH10	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	Tier II Permit No. 005-00004, Condition 2.1.2; IDAPA 58.01.01.650	14.5, 14.6
14.2	Cement loadout process	Fugitive emissions	Reasonable control PM – 15.83 lb/hr, 4.01 T/yr PM ₁₀ – 7.91 lb/hr, 2.00 T/yr	Tier II Permit No. 005-00004, Condition 2.2.1; IDAPA 58.01.01.650	14.4, 14.8, 14.9, 14.10, 14.11, 14.12, 14.13
14.3	Cement loadout process	Particulate matter	Process weight	IDAPA 58.01.01.702	None required.

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Location: Inkom, Idaho**Project No.** T1-9508-132-1**Date Issued:** December 17, 2002
Date Expires: December 17, 2007*The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.***Permit Limits / Standard Summary****14.1 Baghouse 9 (BH9) and Baghouse 10 (BH10)****14.1.1** The PM and PM₁₀ emissions from BH9 and BH10 shall not exceed the emissions limits in Table 14.3.**Table 14.3 EMISSION LIMITS**

Emissions Unit	PM		PM ₁₀	
	lb/hr	T/yr	lb/hr	T/yr
Baghouse 10 (BH10)	0.31	0.67	0.26	0.57
Baghouse 9 (BH9)	2.82	9.26	2.40	7.87

[Tier II Permit No. 005-00004, Condition 2.1.1, 12/8/97]**14.1.2** Visible emissions from the baghouse stacks shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required in IDAPA 58.01.01.625 and as determined using the Department's "Procedure's Manual for Air Pollution Control."**[Tier II Permit No. 005-00004, Condition 2.1.2, 12/8/97; IDAPA 58.01.01.650]****14.2** The PM and PM₁₀ fugitive emissions shall be reasonably controlled, as required in IDAPA 58.01.01.650 and 651. The PM emissions shall not exceed 15.83 lb/hr and 4.01 T/yr, and PM₁₀ emissions shall not exceed 7.91 lb/hr and 2.00 T/yr.**[Tier II Permit No. 005-00004, Condition 2.2.1, 12/8/97; IDAPA 58.01.01.650]****14.3** No person shall emit to the atmosphere from any process or process equipment commencing operation prior to October 1, 1979, PM in excess of the amount shown by the following equations, where E is the allowable emissions from the entire source in pounds per hour, and PW is the process weight in pounds per hour.

a. If PW is less than 17,000 lb/hr,

$$E = 0.045(PW)^{0.6}$$

b. If PW is equal to or greater than 17,000 lb/hr,

$$E = 1.12(PW)^{0.27}$$

[IDAPA 58.01.01.702, 4/5/00]**OPERATING REQUIREMENTS****14.4 Loadout Rates****14.4.1** Rail loadout shall handle no more than 200 tons of cement per hour.**14.4.2** Truck loadout shall handle no more than 225 tons of cement per hour.**14.4.3** Packaging of cement into bags shall not exceed 75 tons of cement per hour.**14.4.4** No more than 382,737 tons of cement on an average annual basis will be shipped from the Ash Grove facility.**[Tier II Permit No. 005-00004, Condition 4.1, 12/8/97]**

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Location: Inkom, Idaho

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Date Expires: December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

14.5 Baghouse Specifications

Each baghouse shall be operated and maintained in accordance with Ash Grove's Dust Collector Maintenance Plan attached as Appendix E. This plan specifies pressure drop ranges for operation of the baghouses at the facility. The content of the Plan may only be modified with written approval of the Department. Modifications of the Plan shall not require modification of the Tier I operating permit and any approved modification of the Plan shall become a condition of this Tier I operating permit as though fully incorporated herein.

[Tier II Permit No. 005-00004, Condition 4.2, 12/8/97; Consent Order, Condition 17, 6/10/02]

14.6 Baghouse Maintenance

The permittee shall perform corrective maintenance within 48 hours of observing any visible emissions from any baghouse stack or baghouse structure.

[Consent Order, Condition 14, 6/10/02]

Monitoring & Recordkeeping Requirements

14.7 The permittee shall record the pressure drop, in inches of water, across BH9 and BH10 weekly and visual observations daily.

14.8 The permittee shall record the daily amount of cement, in tons, transferred from rail loadout.

14.9 The permittee shall record the daily amount of cement, in tons, transferred from truck loadout.

14.10 The permittee shall record the daily amount, in tons, of cement shipped in bags.

14.11 The permittee shall record the hours of operation per day of the rail loadout, truck loadout, and bag filling.

[Tier II Permit No. 005-00004, Condition 3, 12/8/97]

14.12 The permittee shall record, in a daily report, the information requested in Permit Conditions 14.7, 14.8, 14.9, 14.10, and 14.11. These records shall be maintained on site by the permittee for a minimum period of five years, and shall be made available to Department representatives upon request.

[Tier II Permit No. 005-00004, Condition 5, 12/8/97]

14.13 Using the information recorded in 14.12, once each month, the permittee shall calculate the average hourly process rate for the rail loadout, truck loadout, and bag filling for the previous month, and the total tons shipped based upon a 12-month rolling average.

[IDAPA 58.01.01.322.07, 5/1/94]

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Location: Inkom, Idaho**Project No.** T1-9508-132-1**Date Issued:** December 17, 2002
Date Expires: December 17, 2007*The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.***15. COAL HANDLING****Summary Description**

The following is a narrative description of the coal handling process regulated in this Tier I operating permit. This description is for informational purposes only.

Coal handling involves the receiving, handling, processing, and storage of coal. Emissions associated with the transfer points from the dumping of coal to the coal elevator, including transfers to and from the coal hopper, coal belt, and coal elevator, are uncontrolled. Emissions associated with all transfers points from the coal silo to the No. 2 coal mill, including transfers to and from the No. 1 and No. 2 coal mills, are controlled by enclosure.

Table 15.1 describes the devices used to control coal handling emissions.

Table 15.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Source Code	Emissions Unit(s) / Process(es)	Emissions Control Device
F34, F35, F36, F37	Transfer points from the dumping of coal to the coal elevator, including transfers to and from the coal hopper, coal belt, and coal elevator	Uncontrolled
F38, F39, F40, F41	Transfers points from the coal silo to the No. 2 coal mill, including transfers to and from the No. 1 and No. 2 coal mills	Enclosed

Table 15.2 contains a summary of the requirements that apply to the coal handling process. Specific permit requirements are listed below Table 15.2.

Table 15.2 APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Parameter	Permit Limit / Standard Summary	Applicable Requirements Reference	Monitoring & Recordkeeping Requirements
15.1, 15.3	Fugitive emissions	Reasonable control PM – 5.61 lb/hr, 0.74 T/yr PM ₁₀ – 1.40 lb/hr, 0.18 T/yr Process Rate Coal – 280 T/hr, 70,000 T/yr based on a 12 month rolling average	Tier II Permit No. 005-00004, Condition 2.1; IDAPA 58.01.01.650	15.4, 15.5
15.2	Particulate matter	Process weight	IDAPA 58.01.01.702	None required

Permit Limits / Standard Summary**15.1 Fugitive Emissions**

The PM and PM₁₀ fugitive emissions shall be reasonably controlled, as required in IDAPA 58.01.01.650 and 651. The PM emissions shall not exceed 5.61 lb/hr and 0.74 T/yr, and PM₁₀ emissions shall not exceed 1.40 lb/hr and 0.18 T/yr.

[Tier II Permit No. 005-00004, Condition 2.1, 12/8/97; IDAPA 58.01.01.650, 5/1/94]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee: Ash Grove Cement Co.
Location: Inkom, Idaho

Project No. T1-9508-132-1

Date Issued: December 17, 2002
Date Expires: December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

15.2 No person shall emit to the atmosphere from any process or process equipment commencing operation prior to October 1, 1979, PM in excess of the amount shown by the following equations, where E is the allowable emissions from the entire source in pounds per hour, and PW is the process weight in pounds per hour.

a. If PW is less than 17,000 lb/hr,

$$E = 0.045(PW)^{0.6}$$

b. If PW is equal to or greater than 17,000 lb/hr,

$$E = 1.12(PW)^{0.27}$$

[IDAPA 58.01.01.702, 4/5/00]

OPERATING REQUIREMENTS

15.3 The coal hopper shall handle no more than 280 tons of coal per hour on an average hourly basis and 70,000 tons of coal per year, based on a 12 month rolling average.

[Tier II Permit No. 005-00004, Condition 4, 12/8/97; IDAPA 58.01.01.322.01, 5/1/94]

Monitoring & Recordkeeping Requirements

15.4 The permittee shall record, in tons per hour and tons per year, the amount of coal burned in the kiln systems.

[Tier II Permit No. 005-00004, Condition 3, 12/8/97]

15.5 The permittee shall record, in a daily report, the information requested in Permit Condition 15.4. These records shall be maintained onsite by the permittee for a minimum period of five years, and shall be made available to Department representatives upon request.

[Tier II Permit No. 005-00004, Condition 5, 12/8/97]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004**Permittee:** Ash Grove Cement Co.**Project No.** T1-9508-132-1**Date Issued:** December 17, 2002**Location:** Inkom, Idaho**Date Expires:** December 17, 2007*The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.***16. CEMENT KILN DUST HANDLING****Summary Description**

The following is a narrative description of the CKD handling process regulated in this Tier I operating permit. This description is for informational purposes only.

Cement kiln dust handling involves the transfer of CKD from the No. 1 kiln multiclone and ESP and the No. 2 kiln multiclone and ESP to either a 66-ton capacity bin where it awaits reintroduction to the kiln, or to the CKD waste storage and leaching tank.

Table 16.1 describes the devices used to control cement kiln dust handling emissions.

Table 16.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Source Code	Emissions Unit(s) / Process(es)	Emissions Control Device
F109, F88, F98, F107	Transfer of CKD by the loader to waste storage	Uncontrolled
F96, F97, F101, F106, F99, F100, F102, F103, F104, F105	Transfer of CKD from the No. 2 kiln multiclone to the screw, from the screw to the elevator, and from the elevator to a second screw	Enclosed
F82, F83, F84, F85, F92, F87, F108, F93, F94, F95	Transfer of the CKD from the No.1 kiln multiclone elevator, through the screws, and into the bin	Baghouse 11

Table 16.2 contains a summary of the requirements that apply to the CKD handling process. Specific permit requirements are listed below Table 16.2.

Table 16.2 APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Affected Unit	Parameter	Permit Limit / Standard Summary	Applicable Requirements Reference	Monitoring & Recordkeeping Requirements
16.1	BH11	PM ₁₀	0.23 lb/hr, 1.0 T/yr	PTC No. 005-00004, Condition 1.1	16.6
16.2	BH11 and Conveyor Transfer points	Visible emissions	10% Opacity	40 CFR 60.62(c)	2.8
16.3, 16.5	CKD Handling Process	Fugitive emissions	Reasonable control PM – 1.81 lb/hr, 1.59 T/yr PM ₁₀ – 0.90 lb/hr, 0.80 T/yr Process rate CKD – 6 T/hr, 4,575 T/yr	Tier II Permit No. 005-00004, Condition 2.1; IDAPA 58.01.01.650	16.7, 16.8
16.4	CKD Handling Process	Particulate matter	Process weight	IDAPA 58.01.01.702	None required

Permit Limits / Standard Summary

16.1 Baghouse 11 (BH11)

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee: Ash Grove Cement Co.
Location: Inkom, Idaho

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Date Expires: December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

The PM₁₀ emissions from BH11 shall not exceed 0.23 lb/hr and 1.0 T/yr.

[PTC No. 005-00004, Condition 1.1, 05/17/99]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee: Ash Grove Cement Co.
Location: Inkom, Idaho

Project No. T1-9508-132-1

Date Issued: December 17, 2002
Date Expires: December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

16.2 Baghouse BH No. 11 and Conveyor Transfer Point Opacity Limit

In accordance with 40 CFR 60.62(c), the permittee shall not cause to be discharged to the atmosphere from baghouse BH11 stack, any new screw conveyors associated with the dust scoop system, and the dust feed spout (bulk loading systems) any gases which exhibit 10% opacity, or greater. Opacity shall be determined using the procedures specified in IDAPA 58.01.01.625.

[PTC No. 005-00004, Condition 1.2, 05/17/99; IDAPA 58.01.01.625, 4/5/00; 40 CFR 60.62(c)]

16.3 Fugitive Emissions

The PM and PM₁₀ fugitive emissions shall be reasonably controlled, as required in IDAPA 58.01.01.650 and 651. The PM emissions shall not exceed 1.81 lb/hr and 1.59 T/yr, and PM₁₀ emissions shall not exceed 0.90 lb/hr and 0.80 T/yr.

[Tier II Permit No. 005-00004, Condition 2.1, 12/8/97; IDAPA 58.01.01.650, 5/1/94]

16.4 No person shall emit into the atmosphere from any process or process equipment commencing operation prior to October 1, 1979, PM in excess of the amount shown by the following equations, where E is the allowable emissions from the entire source in pounds per hour, and PW is the process weight in pounds per hour.

a. If PW is less than 17,000 lb/hr,

$$E = 0.045(PW)^{0.6}$$

b. If PW is equal to or greater than 17,000 lb/hr,

$$E = 1.12(PW)^{0.27}$$

[IDAPA 58.01.01.702, 4/5/00]

Operating, Monitoring & Recordkeeping Requirements

16.5 Cement kiln dust waste storage shall receive no more than 6 tons of CKD per hour, and 4,575 tons of CKD per year.

[Tier II Permit No. 005-00004, Condition 4, 12/8/97]

16.6 The permittee shall operate and maintain the baghouses in accordance with the Dust Collector Maintenance Plan contained in Appendix E.

[Consent Order, Condition 17, 6/10/02]

16.7 The permittee shall record daily the amount, in tons, of CKD transferred to CKD waste storage.

[Tier II Permit No. 005-00004, Condition 3, 12/8/97]

16.8 The permittee shall record daily the information requested in Permit Conditions 16.9 and 16.10. These records shall be maintained onsite for a minimum period of five years, and shall be made available to Department representatives upon request.

[Tier II Permit No. 005-00004, Condition 5, 12/8/97]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004**Permittee:** Ash Grove Cement Co.
Location: Inkom, Idaho**Project No.** T1-9508-132-1**Date Issued:** December 17, 2002
Date Expires: December 17, 2007*The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.***17. UNPAVED ROADS*****Summary Description***

The following is a narrative description of the unpaved roads regulated in this Tier I operating permit. This description is for informational purposes only.

Routine vehicular traffic on unpaved plant roads. Unpaved roadways are water sprayed on a regular basis.

Table 17.1 describes the devices used to control unpaved road emissions.

Table 17.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Segment No.	Emissions Unit(s) / Process(es)	Emissions Control Device
1,2,D, 3P, 3P1, 3Q, 3O, HR1, LR1, CKD, G1, G2, I1, S1, 3g, 3h, 3S, 3T, 3U	Unpaved Roads	Water sprayed on a regular basis

Table 17.2 contains a summary of the requirements that apply to the unpaved roads. Specific permit requirements are listed below Table 17.2.

Table 17.2 APPLICABLE REQUIREMENTS SUMMARY

Permit Conditions	Parameter	Permit Limit / Standard Summary	Applicable Requirements Reference	Monitoring & Recordkeeping Requirements
17.1	Fugitive Emissions	Reasonable control PM – 19.97 lb/hr, 16.58 T/yr PM ₁₀ – 7.19 lb/hr, 5.97 T/yr	Tier II Permit No. 005-00004, Condition 2.1; IDAPA 58.01.01.650	17.2, 17.3, 17.4

Permit Limits / Standard Summary**17.1 Fugitive Emissions**

The PM and PM₁₀ fugitive emissions shall be reasonably controlled, as required in IDAPA 58.01.01.650 and 651. The PM emissions shall not exceed 19.97 lb/hr and 16.58 T/yr, and PM₁₀ emissions shall not exceed 7.19 lb/hr and 5.97 T/yr.

[Tier II Permit No. 005-00004, Condition 2.1, 12/8/97; IDAPA 58.01.01.650, 4/5/00]

Operating Requirements

17.2 At all times, fugitive emissions shall be reasonably controlled by, but not limited to, the following methods, and as required in IDAPA 58.01.01.650 and 651:

- Using water sprays, chemicals, and dust suppressants on the plant property and unpaved roads.

[Tier II Permit No. 005-00004, Condition 4.1, 12/8/97]

17.3 Vehicle speed shall not exceed 8 mph.

[IDAPA 58.01.01.322.01, 3/19/99]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee: Ash Grove Cement Co.	Project No. T1-9508-132-1	Date Issued: December 17, 2002
Location: Inkom, Idaho		Date Expires: December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

Monitoring & Recordkeeping Requirements

- 17.4 The permittee shall record, semiannually, the number of applications of chemical dust suppressants on unpaved roads. These records shall be maintained onsite for a minimum period of five years, and shall be made available to Department representatives upon request.

[Tier II Permit No. 005-00004, Conditions 3 and 5, 12/8/97]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004**Permittee:** Ash Grove Cement Co.
Location: Inkom, Idaho**Project No.** T1-9508-132-1**Date Issued:** December 17, 2002
Date Expires: December 17, 2007*The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.***18. PAVED ROADS****Summary Description**

The following is a narrative description of the paved roads regulated in this Tier I operating permit. This description is for informational purposes only.

Routine vehicular traffic on paved plant roads. Paved roadways in the plant are cleaned by a street sweeper on a regular basis.

Table 18.1 describes the devices used to control paved road emissions.

Table 18.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES

Segment No.	Emissions Unit(s) / Process(es)	Emissions Control Device
3A, 3B, 3C, 3D, 3E, 3F, 3FF, 3I, 3J, 3K, 3L, 3N, 3R, 3M	Paved roads	Cleaned by a street sweeper on a regular basis

Table 18.2 contains a summary of the requirements that apply to the paved roads. Specific permit requirements are listed below Table 18.2.

Table 18.2 APPLICABLE REQUIREMENTS SUMMARY

Permit Condition	Parameter	Permit Limits / Standard Summary	Applicable Requirements Reference	Monitoring & Recordkeeping Requirements
18.1	Fugitive emissions	Reasonable control PM – 46.52 lb/hr, 16.12 T/yr PM ₁₀ – 10.01 lb/hr, 3.47 T/yr	Tier II Permit No. 005-00004, Condition 2.1; IDAPA 58.01.01.650	18.2, 18.3, 18.4

Permit Limits / Standard Summary**18.1 Fugitive Emissions**

Fugitive emissions PM and PM₁₀ shall be reasonably controlled, as required in IDAPA 58.01.01.650 and 651. The PM emissions shall not exceed 46.52 lb/hr and 16.12 T/yr, and PM₁₀ emissions shall not exceed 10.01 lb/hr and 3.47 T/yr.

[Tier II Permit No. 005-00004, Condition 2.1, 12/8/97; IDAPA 58.01.01.650, 4/5/00]

Operating Requirements

18.2 At all times, fugitive emissions shall be reasonably controlled by, but not limited to, the following methods, and as required in IDAPA 58.01.01.650 and 651:

- Routinely cleaning and maintaining all paved roads.

[Tier II Permit No. 005-00004, Condition 3.1, 12/8/97]

18.3 Vehicle speed shall not exceed 8 mph.

[IDAPA 58.01.01.322.01, 3/19/99]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee: Ash Grove Cement Co.
Location: Inkom, Idaho

Project No. T1-9508-132-1

Date Issued: December 17, 2002
Date Expires: December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

Monitoring & Recordkeeping Requirements

18.4 The permittee shall maintain records of the dates and sections of paved roads swept.

[IDAPA 58.01.01.322.07, 5/1/94]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004**Permittee:** Ash Grove Cement Co.
Location: Inkom, Idaho**Project No.** T1-9508-132-1**Date Issued:** December 17, 2002
Date Expires: December 17, 2007*The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.***19. INSIGNIFICANT ACTIVITIES**

Activities and emissions units identified as insignificant under IDAPA 58.01.01.317.01(b)(i) are listed in the Tier I operating permit to qualify for a permit shield.

Table 19.1. INSIGNIFICANT ACTIVITIES

Description	Plant Location	Insignificant Activities IDAPA 58.01.01.317.01(b)(i) Citation
Operation of loading and unloading storage tanks	Two aboveground 500-gallon tanks and one 3000-gallon underground tank	(3)
Grinding aid and used oil tanks	Building No. 38 and No. 62	(3)
Operation, unloading, and storage of butane, propane, or LPG	Plant-wide	(4)
Combustion sources less than 5 MMBtu/hr using exclusively natural gas, butane, propane, and/or LPG	Plant-wide	(5)
Welding	Building No. 30 and throughout plant area	(9)
Cleaning and stripping activities using solutions containing less than 1% VOC by weight	Plant-wide	(26)
Water-based lubricants for metal working where the organic content of the lubricant is less than 10%	Buildings No. 30 and No. 48	(27)

- 19.1 There are no monitoring, recordkeeping, or reporting requirements for insignificant emissions units or activities beyond those required in the Facility-wide Permit Conditions.

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004**Permittee:** Ash Grove Cement Co.
Location: Inkom, Idaho**Project No.** T1-9508-132-1**Date Issued:** December 17, 2002
Date Expires: December 17, 2007*The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.***20. COMPLIANCE SCHEDULE**

The following compliance schedule (Table 20.1) will be implemented by the permittee and the Department in accordance with the June 10, 2002 consent order.

Table 20.1 COMPLIANCE SCHEDULE

Permit Conditions	Milestone	Deadline	Documentation/Reporting
20.1	Permittee shall submit facility-wide Tier II application	180 days after issuance of consent order	Issuance of completeness letter from the Department to permittee
20.2	Obtain a Tier II operating permit	Within 90 days of completeness date or a later date as determined by the Department	Issuance of Tier II permit to permittee
20.3	Apply for a revised Tier I operating permit	Within 30 days after issuance of the Tier II operating permit	Application to Department from permittee

20.1 Within 180 days of the effective date of the Consent Order, Ash Grove shall submit a complete application to modify its Tier II operating permit (No. 005-00004, issued December 8, 1997). The application to modify the Tier II operating permit shall include the following:

20.1.1 A prevention of significant deterioration (PSD) analysis for the kiln modifications in 1986 (used-oil burning), 1992 (whole-tire burning in kiln No. 2), and 1997 (modified-heat exchange system). The analysis for PSD increment shall be conducted according to Department guidelines.

20.1.2 A facility-wide modeling analysis for NO₂, CO, SO_x, Pb, PM₁₀ that demonstrates compliance with the ambient air quality standards (IDAPA 58.01.01.575).

[Consent Order, Condition 19, 6/10/02]

20.2 The Department shall issue a modified Tier II operating Permit to the permittee within 90 days of receipt of a complete application or a later date as determined by the Department.

[IDAPA 58.01.01.322.10.a.i, 4/5/00]

20.3 The permittee shall apply for a modification of the Tier I operating permit within 30 days of issuance of the modified Tier II operating permit to incorporate any new and modified permit terms and limitations into the Tier I operating permit.

[Consent Order, Condition 23, 6/10/02; IDAPA 58.01.01.322.10.a.i, 4/5/00]

20.4 The terms and conditions regarding the compliance schedule are supplemental to and do not sanction noncompliance with the underlying requirement of IDAPA 58.01.01.201 that no owner or operator may commence construction or modification of any stationary source, major facility, or major modification without first obtaining a PTC from the Department.

[IDAPA 58.01.01.322.10.a.v, 5/1/94]

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee: Ash Grove Cement Co.
Location: Inkom, Idaho

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Date Expires: December 17, 2007

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21. TIER I OPERATING PERMIT GENERAL PROVISIONS

General Compliance

1. The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or for denial of a permit renewal application.
[IDAPA 58.01.01.322.15.a, 5/1/94; 40 CFR 70.6(a)(6)(i)]
2. It shall not be a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the terms and conditions of this permit.
[IDAPA 58.01.01.322.15.b, 5/1/94; 40 CFR 70.6(a)(6)(ii)]
3. Any permittee who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information.
[IDAPA 58.01.01.315.01, 5/1/94; 40 CFR 70.5(b)]

Reopening

4. This permit may be revised, reopened, revoked and reissued, or terminated for cause. Cause for reopening exists under any of the circumstances listed in IDAPA 58.01.01.386. Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable in accordance with IDAPA 58.01.01.360 through 369.
[IDAPA 58.01.01.322.15.c, 5/1/94; IDAPA 58.01.01.386, 3/19/99; 40 CFR 70.7(f)(1) and (2); 40 CFR 70.6(a)(6)(iii)]
5. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
[IDAPA 58.01.01.322.15.d, 5/1/94; 40 CFR 70.6(a)(6)(iii)]

Property Rights

6. This permit does not convey any property rights of any sort, or any exclusive privilege.
[IDAPA 58.01.01.322.15.e, 5/1/94; 40 CFR 70.6(a)(6)(iv)]

Information Requests

7. The permittee shall furnish all information requested by the Department, within a reasonable time, that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.
[Idaho Code § 39-108; IDAPA 58.01.01.122 (5/1/94) and 322.15.f (4/5/00); 40 CFR 70.6(a)(6)(v)]
8. Upon request, the permittee shall furnish to the Department copies of records required to be kept by this permit. For information claimed to be confidential, the permittee may furnish such records along with a claim of confidentiality in accordance with Idaho Code § 9-342A and applicable implementing regulations including IDAPA 58.01.01.128.
[IDAPA 58.01.01.322.15.g, 5/1/94; IDAPA 58.01.01.128, 4/5/00; 40 CFR 70.6(a)(6)(v)]

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Location: Inkom, Idaho

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Date Expires: December 17, 2007

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Severability

9. The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

[IDAPA 58.01.01.322.15.h, 5/1/94; 40 CFR 70.6(a)(5)]

Changes Requiring Permit Revision or Notice

10. The permittee may not commence construction or modification of any stationary source, facility, major facility, or major modification without first obtaining all necessary permits to construct or an approval under IDAPA 58.01.01.213, or complying with IDAPA 58.01.01.220 through 223. The permittee shall comply with IDAPA 58.01.01.380 through 386 as applicable.

**[IDAPA 58.01.01.200-223, 4/5/00; IDAPA 58.01.01.322.15.i, 380-386, 3/19/99;
40 CFR 70.4(b)(12)]**

11. Changes that are not addressed or prohibited by the Tier I operating permit require a Tier I operating permit revision if such changes are subject to any requirement under Title IV of the CAA, 42 U.S.C. Section 7651 through 7651c, or are modifications under Title I of the CAA, 42 U.S.C. Section 7401 through 7515. Administrative amendments (IDAPA 58.01.01.381), minor permit modifications (IDAPA 58.01.01.383), and significant permit modifications (IDAPA 58.01.01.382) require a revision to the Tier I operating permit. IDAPA 58.01.01.502(b)(10) charges are authorized in accordance with IDAPA 58.01.01.384. Off-permit changes and required notice are authorized in accordance with IDAPA 58.01.01.385.

**[IDAPA 58.01.01.381-385, 3/19/99; IDAPA 58.01.01.209.05, 5/1/94;
40 CFR 70.4(b)(14) and (15), and 70.7(d) and (e)]**

Federal and State Enforceability

12. Unless specifically identified as a "state-only" provision, all terms and conditions in this permit, including any terms and conditions designed to limit a source's potential to emit, are enforceable: (i) by the Department in accordance with state law; and (ii) by the United States or any other person in accordance with federal law.

[IDAPA 58.01.01.322.15.j, 5/1/94; 40 CFR 70.6(b)(1) and (2)]

13. Provisions specifically identified as a "state-only" provision are enforceable only in accordance with state law. "State-only" provisions are those that are not required under the Federal Clean Air Act or under any of its applicable requirements or those provisions adopted by the state prior to federal approval.

[Idaho Code § 39-108; IDAPA 58.01.01.322.15.k, 3/23/98]

Inspection and Entry

14. Upon presentation of credentials, the permittee shall allow the Department or an authorized representative of the Department to do the following:

- Enter upon the permittee's premises where a Tier I source is located or emissions related activity is conducted, or where records are kept under conditions of this permit.
- Have access to and copy, at reasonable times, any records that are kept under the conditions of this

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permit.

- Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
- As authorized by the Idaho Environmental Protection and Health Act, sample or monitor, at reasonable times, substances or parameters for the purpose of determining or ensuring compliance with this permit or applicable requirements.

[Idaho Code § 39-108; IDAPA 58.01.01.322.15.l, 5/1/94; 40 CFR 70.6(c)(2)]

New Requirements During Permit Term

15. The permittee shall comply with applicable requirements that become effective during the permit term on a timely basis.

[IDAPA 58.01.01.322.10, 4/5/00; IDAPA 58.01.01.314.10.a.ii, 5/1/94; 40 CFR 70.6(c)(3) citing 70.5(c)(8)]

Fees

16. The owner or operator of a Tier I source shall pay annual registration fees to the Department in accordance with IDAPA 58.01.01.525 through IDAPA 58.01.01.538.

[IDAPA 58.01.01.322.15.n, 5/1/94; 40 CFR 70.6(a)(7)]

Certification

17. All documents submitted to the Department shall be certified in accordance with IDAPA 58.01.01.123 and comply with IDAPA 58.01.01.124.

[IDAPA 58.01.01.322.15.o, 5/1/94; 40 CFR 70.6(c)(1); 40 CFR 70.5(d)]

Renewal

18. The owner or operator of a Tier I source shall submit an application to the Department for a renewal of this permit at least six months before, but no earlier than 18 months before, the expiration date of this operating permit. To ensure that the term of the operating permit does not expire before the permit is renewed, the owner or operator is encouraged to submit a renewal application nine months prior to the date of expiration.

[IDAPA 58.01.01.313.03, 4/5/00; 40 CFR 70.5(a)(1)(iii)]

- 18.1 If a timely and complete application for a Tier I operating permit renewal is submitted, but the Department fails to issue or deny the renewal permit before the end of the term of this permit, then all the terms and conditions of this permit including any permit shield that may have been granted pursuant to IDAPA 58.01.01.325 shall remain in effect until the renewal permit has been issued or denied.

[IDAPA 58.01.01.322.15.p, 5/1/94; 40 CFR 70.7(b)]

Permit Shield

19. Compliance with the terms and conditions of the Tier I operating permit, including those applicable to all alternative operating scenarios and trading scenarios, shall be deemed compliance with any applicable

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requirements as of the date of permit issuance, provided that:

- a. Such applicable requirements are included and are specifically identified in the Tier I operating permit; or
 - i. The Department has determined that other requirements specifically identified are not applicable and all of the criteria set forth in IDAPA 58.01.01.325.01(b) have been met.
- b. The permit shield shall apply to permit revisions made in accordance with IDAPA 58.01.01.381.04 (administrative amendments incorporating the terms of a permit to construct), IDAPA 58.01.01.382.04 (significant modifications), and IDAPA 58.01.01.384.03 (trading under an emissions cap).
- c. Nothing in this permit shall alter or affect the following:
 - i. Any administrative authority or judicial remedy available to prevent or terminate emergencies or imminent and substantial dangers;
 - ii. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
 - iii. The applicable requirements of the acid rain program, consistent with 42 U.S.C. Section 7651(g)(a); and
 - iv. The ability of EPA to obtain information from a source pursuant to Section 114 of the CAA; or the ability of the Department to obtain information from a source pursuant to Idaho Code 39-108 and IDAPA 58.01.01.122.

[Idaho Code § 39-108 and 112; IDAPA 58.01.01.122, 322.15.m, 325, 5/1/94; IDAPA 58.01.01.381.04, 382.04, 383.05, 384.03, 385.03, 3/19/99; 40 CFR 70.6(f)]

Compliance Schedule and Progress Reports

20.
 - a. For each applicable requirement for which the source is not in compliance, the permittee shall comply with the compliance schedule incorporated in this permit.
 - b. For each applicable requirement that will become effective during the term of this permit and that provides a detailed compliance schedule, the permittee shall comply with such requirements in accordance with the detailed schedule.
 - c. For each applicable requirement that will become effective during the term of this permit that does not contain a more detailed schedule, the permittee shall meet such requirements on a timely basis.
 - d. For each applicable requirement with which the permittee is in compliance, the permittee shall continue to comply with such requirements.
[IDAPA 58.01.01.322.10, 4/5/00; IDAPA 58.01.01.314.9, 10, 5/1/94; 40 CFR 70.6(c)(3) and (4)]

Periodic Compliance Certification

21.
 - a. The permittee shall submit compliance certifications during the term of the permit for each

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emissions unit to the Department and the EPA as follows:

- b. Compliance certifications for all emissions units shall be submitted annually beginning 12 months from the permit issuance date (plus 30 days for the previous 12-month period), or more frequently if specified by the underlying applicable requirement or elsewhere in this permit by the Department;
- c. The compliance certification for each emissions unit shall address all of the terms and conditions contained in the Tier I operating permit that are applicable to such emissions unit including emissions limitations, standards, and work practices;
- d. The compliance certification shall be in an itemized form providing the following information (provided that the identification of applicable information may cross-reference the permit or previous reports as applicable):
 - i. The identification of each term or condition of the Tier I operating permit that is the basis of the certification;
 - ii. The identification of the method(s) or other means used by the owner or operator for determining the compliance status with each term and condition during the certification period, and whether such methods or other means provide continuous or intermittent data. Such methods and other means shall include, at a minimum, the methods and means required by this Tier I operating permit. If necessary, the owner or operator shall identify any other material information that must be included in the certification to comply with Section 113(c)(2) of the CAA which prohibits knowingly making a false certification or omitting material information;
 - iii. The status of compliance with the terms and conditions of the permit for the period covered by the certification, based on the method or means designated in Paragraph 21.d.ii above. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 occurred;
 - iv. Such other facts as the Department may require to determine the compliance status of the source.
- e. All original compliance certifications shall be submitted to the Department and a copy of all compliance certifications shall be submitted to the EPA.

[IDAPA 58.01.01.322.11, 5/1/94; 40 CFR 70.6(c)(5)(iii) as amended, 62 Fed. Reg. 54900, 54946 (10/22/97); 40 CFR 70.6(c)(5)(iv)]

False Statements

22. No person shall knowingly make any false statement, representation, or certification in any form, notice, or report required under this permit, or any applicable rule or order in force pursuant thereto.

[IDAPA 58.01.01.125, 3/23/98]

No Tampering

23. No person shall knowingly render inaccurate any monitoring device or method required under this permit

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or any applicable rule or order in force pursuant thereto.

[IDAPA 58.01.01.126, 3/23/98]

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Semiannual Monitoring Reports

24. In addition to all applicable reporting requirements identified in this permit, the permittee shall submit reports of any required monitoring at least every six months starting six months (plus 30 days for the previous 6 month period) from the date of permit issuance. All instances of deviations from this operating permit's requirements must be clearly identified in the report. All required reports must be certified in accordance with IDAPA 58.01.01.123.

[IDAPA 58.01.01.322.15.q, 3/23/98; IDAPA 58.01.01.322.08.c, 4/5/00; 40 CFR 70.6(a)(3)(iii)]

Reporting Deviations and Excess Emissions

25. The permittee shall promptly report all deviations from permit requirements including upset conditions, their probable cause, and any corrective actions or preventive measures taken. For excess emissions, the report shall be made in accordance with IDAPA 58.01.01.130-136. For all other deviations, the report shall be made in accordance with IDAPA 58.01.01.322.08.c, unless otherwise specified in this permit.

[IDAPA 58.01.01.322.15.q, 3/23/98; IDAPA 58.01.01.135, 4/5/00; 40 CFR 70.6(a)(3)(iii)]

Permit Revision Not Required

26. No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit.

[IDAPA 58.01.01.322.05.b, 4/5/00; 40 CFR 70.6(a)(8)]

Emergency

27. In accordance with IDAPA 58.01.01.332, an "emergency" as defined in IDAPA 58.01.01.008., constitutes an affirmative defense to an action brought for noncompliance with such technology-based emissions limitation if the conditions of IDAPA 58.01.01.332.02 are met.

[IDAPA 58.01.01.332.01, 3/19/99; 40 CFR 70.6(g)]

General Provision B

28. The permittee shall at all times (except as provided in the *Rules for the Control of Air Pollution in Idaho*) maintain in good working order and operate as efficiently as practicable, all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable Idaho laws for the control of air pollution.

[General Provision B, PTC No. 005-00004, 05/17/99]

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Appendix A

40 CFR 63 Subpart A Requirements

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Prohibited activities and circumvention

(a) (1) No owner or operator subject to the provisions of this part must operate any affected source in violation of the requirements of this part. Affected sources subject to and in compliance with either an extension of compliance or an exemption from compliance are not in violation of the requirements of this part. An extension of compliance can be granted by the Administrator under this part; by a State with an approved permit program; or by the President under section 112(i)(4) of the Act.

(2) No owner or operator subject to the provisions of [40 CFR 63](#) shall fail to keep records, notify, report, or revise reports as required under [40 CFR 63](#).

(b) Circumvention.

No owner or operator subject to the provisions of [40 CFR 63](#) shall build, erect, install, or use any article, machine, equipment, or process to conceal an emissions that would otherwise constitute noncompliance with a relevant standard.

Such concealment includes, but is not limited to the following address:

(1) The use of diluents to achieve compliance with a relevant standard based on the concentration of a pollutant in the effluent discharged to the atmosphere.

(2) The use of gaseous diluents to achieve compliance with a relevant standard for visible emissions; and

(3)–(5) [Reserved]

(c) Fragmentation. Fragmentation after November 15, 1990 which divides ownership of an operation, within the same facility among various owners where there is no real change in control, will not affect applicability. The owner and operator must not use fragmentation or phasing of reconstruction activities (i.e., intentionally dividing reconstruction into multiple parts for purposes of avoiding new source requirements) to avoid becoming subject to new source requirements.

[40 CFR 63.4]

Operation and maintenance requirements

(e) Operation and maintenance requirements.

(1)(i) At all times, including periods of startup, shutdown, and malfunction, the owner or operator must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions to the levels required by the relevant standards, i.e., meet the emission standard or comply with the startup, shutdown, and malfunction plan. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures (including the startup, shutdown, and malfunction plan required in paragraph (e)(3) of this section), review of operation and maintenance records, and inspection of the source.

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(ii) Malfunctions must be corrected as soon as practicable after their occurrence in accordance with the startup, shutdown, and malfunction plan required in paragraph (e)(3) of this section. To the extent that an unexpected event arises during a startup, shutdown, or malfunction, an owner or operator must comply by minimizing emissions during such a startup, shutdown, and malfunction event consistent with safety and good air pollution control practices.

(iii) Operation and maintenance requirements established pursuant to section 112 of the Act are enforceable independent of emissions limitations or other requirements in relevant standards.

(2) Reserved

(3) Startup, Shutdown, and Malfunction Plan.

(i) The owner or operator of an affected source must develop and implement a written startup, shutdown, and malfunction plan that describes, in detail, procedures for operating and maintaining the source during periods of startup, shutdown, and malfunction; a program of corrective action for malfunctioning process; and air pollution control and monitoring equipment used to comply with the relevant standard. This plan must be developed by the owner or operator by the source's compliance date for that relevant standard. The purpose of the startup, shutdown, and malfunction plan is to--

(A) Ensure that, at all times, the owner or operator operate and maintain affected sources, including associated air pollution control and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions to the levels required by the relevant standards;

(B) Ensure that owners or operators are prepared to correct malfunctions as soon as practicable after their occurrence in order to minimize excess emissions of hazardous air pollutants; and

(C) Reduce the reporting burden associated with periods of startup, shutdown, and malfunction (including corrective action taken to restore malfunctioning process and air pollution control equipment to its normal or usual manner of operation).

(ii)) During periods of startup, shutdown, and malfunction, the owner or operator of an affected source must operate and maintain such source (including associated air pollution control and monitoring equipment) in accordance with the procedures specified in the startup, shutdown, and malfunction plan developed under paragraph (e)(3)(i) of this section.

(iii) When actions taken by the owner or operator during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) are consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, the owner or operator must keep records for that event which demonstrate that the procedures specified in the plan were followed. These records may take the form of a "checklist," or other effective form of recordkeeping that confirms conformance with the startup, shutdown, and malfunction plan for that event. In addition, the owner or operator must keep records of these events as specified in § 63.10(b), including records of the occurrence and duration of each startup, shutdown, or malfunction of operation and each malfunction of the air pollution control and monitoring equipment.

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- (iv) If an action taken by the owner or operator during a startup, shutdown, or malfunction (including an action taken to correct a malfunction) is not consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, and the source exceeds the relevant emission standard, then the owner or operator must record the actions taken for that event and must report such actions within 2 working days after commencing actions inconsistent with the plan, followed by a letter within 7 working days after the end of the event, in accordance with § 63.10(d)(5) (unless the owner or operator makes alternative reporting arrangements, in advance, with the Administrator).
- (v) The owner or operator must maintain at the affected source a current startup, shutdown, and malfunction plan and must make the plan available upon request for inspection and copying by the Administrator. In addition, if the startup, shutdown, and malfunction plan is subsequently revised as provided in paragraph (e)(3)(viii) of this section, the owner or operator must maintain at the affected source each previous (i.e., superseded) version of the startup, shutdown, and malfunction plan, and must make each such previous version available for inspection and copying by the Administrator for a period of 5 years after revision of the plan. If at any time after adoption of a startup, shutdown, and malfunction plan the affected source ceases operation or is otherwise no longer subject to the provisions of this part, the owner or operator must retain a copy of the most recent plan for 5 years from the date the source ceases operation or is no longer subject to this part and must make the plan available upon request for inspection and copying by the Administrator.
- (vi) To satisfy the requirements of this section to develop a startup, shutdown, and malfunction plan, the owner or operator may use the affected source's standard operating procedures (SOP) manual, or an Occupational Safety and Health Administration (OSHA) or other plan, provided the alternative plans meet all the requirements of this section and are made available for inspection when requested by the Administrator.
- (vii) Based on the results of a determination made under paragraph (e)(2) of this section, the Administrator may require that an owner or operator of an affected source make changes to the startup, shutdown, and malfunction plan for that source. The Administrator may require reasonable revisions to a startup, shutdown, and malfunction plan, if the Administrator finds that the plan:
- (A) Does not address a startup, shutdown, or malfunction event that has occurred;
 - (B) Fails to provide for the operation of the source (including associated air pollution control and monitoring equipment) during a startup, shutdown, or malfunction event in a manner consistent with safety and good air pollution control practices for minimizing emissions to the levels required by the relevant standards;
 - (C) Does not provide adequate procedures for correcting malfunctioning process and/or air pollution control and monitoring equipment as quickly as practicable; or
 - (D) Includes an event that does not meet the definition of startup, shutdown, or malfunction listed in § 63.2.
- (viii) The owner or operator may periodically revise the startup, shutdown, and malfunction plan for the affected source as necessary to satisfy the requirements of this part or to reflect changes in equipment or procedures at the affected source. Unless the permitting authority provides otherwise, the owner or operator may make such revisions to the startup, shutdown, and malfunction plan without prior approval by the Administrator or the permitting authority. However, each such revision to a startup, shutdown,

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and malfunction plan must be reported in the semiannual report required by § 63.10(d)(5). If the startup, shutdown, and malfunction plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction but was not included in the startup, shutdown, and malfunction plan at the time the owner or operator developed the plan, the owner or operator must revise the startup, shutdown, and malfunction plan within 45 days after the event to include detailed procedures for operating and maintaining the source during similar malfunction events and a program of corrective action for similar malfunctions of process or air pollution control and monitoring equipment. In the event that the owner or operator makes any revision to the startup, shutdown, and malfunction plan which alters the scope of the activities at the source which are deemed to be a startup, shutdown, malfunction, or otherwise modifies the applicability of any emission limit, work practice requirement, or other requirement in a standard established under this part, the revised plan shall not take effect until after the owner or operator has provided a written notice describing the revision to the permitting authority.

(ix) The title V permit for an affected source must require that the owner or operator adopt a startup, shutdown, and malfunction plan which conforms to the provisions of this part, and that the owner or operator operate and maintain the source in accordance with the procedures specified in the current startup, shutdown, and malfunction plan. However, any revisions made to the startup, shutdown, and malfunction plan in accordance with the procedures established by this part shall not be deemed to constitute permit revisions under part 70 or part 71 of this chapter. Moreover, none of the procedures specified by the startup, shutdown, and malfunction plan for an affected source shall be deemed to fall within the permit shield provision in section 504(f) of the Act.

(f) Compliance with nonopacity emissions standards

(1) Applicability. The non-opacity emission standards set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction, and as otherwise specified in an applicable subpart. If a startup, shutdown, or malfunction of one portion of an affected source does not affect the ability of particular emission points within other portions of the affected source to comply with the non-opacity emission standards set forth in this part, then that emission point must still be required to comply with the non-opacity emission standards and other applicable requirements.

[40 CFR 63.6(e), (f)(1)]

Performance testing requirements

(a) Applicability and performance test dates.

(1) The applicability of this section is set out in § 63.1(a)(4).

(2) If required to do performance testing by a relevant standard, and unless a waiver of performance testing is obtained under this section or the conditions of paragraph (c)(3)(ii)(B) of this section apply, the owner or operator of the affected source must perform such tests within 180 days of the compliance date for such source.

(i) -- (viii) (Reserved).

(ix) When an emissions standard promulgated under [40 CFR 63](#) is more stringent than the standard proposed [see [§ 63.6\(b\)\(3\)](#)], the owner or operator of a new or reconstructed source subject to that standard for which construction or reconstruction is commenced between the proposal and promulgation dates of the standard shall comply with performance testing requirements within 180 days after the standard's effective date, or within 180 days after startup of the source, whichever is later. If the

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promulgated standard is more stringent than the proposed standard, the owner or operator may choose to demonstrate compliance with either the proposed or the promulgated standard. If the owner or operator chooses to comply with the proposed standard initially, the owner or operator shall conduct a second performance test within 3 years and 180 days after the effective date of the standard, or after startup of the source, whichever is later, to demonstrate compliance with the promulgated standard.

(3) The Administrator may require an owner or operator to conduct performance tests at the affected source at any other time when the action is authorized by section 114 of the Act.

[40 CFR 63.7(a)]

(b) Notification of performance test.

(1) The owner or operator of an affected source must notify the Administrator in writing of his or her intention to conduct a performance test at least 60 calendar days before the performance test is initially scheduled to begin to allow the Administrator, upon request, to review and approve the site-specific test plan required under paragraph (c) of this section and to have an observer present during the test.

(2) In the event the owner or operator is unable to conduct the performance test on the date specified in the notification requirement specified in paragraph (b)(1) of this section due to unforeseeable circumstances beyond his or her control, the owner or operator must notify the Administrator as soon as practicable and without delay prior to the scheduled performance test date and specify the date when the performance test is rescheduled.

[40 CFR 63.7(b)]

(c) Quality assurance program.

(1) The results of the quality assurance program required in this paragraph will be considered by the Administrator when he/she determines the validity of a performance test.

(2)(i) Submission of site-specific test plan. Before conducting a required performance test, the owner or operator of an affected source shall develop and, if requested by the Administrator, shall submit a site-specific test plan to the Administrator for approval. The test plan shall include a test program summary, the test schedule, data quality objectives, and both an internal and external quality assurance (QA) program. Data quality objectives are the pretest expectations of precision, accuracy, and completeness of data.

(ii) The internal QA program shall include, at a minimum, the activities planned by routine operators and analysts to provide an assessment of test data precision; an example of internal QA is the sampling and analysis of replicate samples.

(iii) The external QA program shall include, at a minimum, application of plans for a test method performance audit (PA) during the performance test. The PA's consist of blind audit samples provided by the Administrator and analyzed during the performance test in order to provide a measure of test data bias. The external QA program may also include systems audits that include the opportunity for on-site evaluation by the Administrator of instrument calibration, data validation, sample logging, and documentation of quality control data and field maintenance activities.

(iv) The owner or operator of an affected source shall submit the site-specific test plan to the Administrator upon the Administrator's request at least 60 calendar days before the performance test is scheduled to take place, that is, simultaneously with the notification of intention to conduct a performance test required under paragraph (b) of this section, or on a mutually agreed upon date.

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(v) The Administrator may request additional relevant information after the submittal of a site-specific test plan.

(3) Approval of site-specific test plan.

(i) The Administrator will notify the owner or operator of approval or intention to deny approval of the site-specific test plan (if review of the site-specific test plan is requested) within 30 calendar days after receipt of the original plan and within 30 calendar days after receipt of any supplementary information that is submitted under paragraph (c)(3)(i)(B) of this section. Before disapproving any site-specific test plan, the Administrator will notify the applicant of the Administrator's intention to disapprove the plan together with –

(A) Notice of the information and findings on which the intended disapproval is based; and

(B) Notice of opportunity for the owner or operator to present, within 30 calendar days after he/she is notified of the intended disapproval, additional information to the Administrator before final action on the plan.

(ii) In the event that the Administrator fails to approve or disapprove the site-specific test plan within the time period specified in paragraph (c)(3)(i) of this section, the following conditions shall apply:

(A) If the owner or operator intends to demonstrate compliance using the test method(s) specified in the relevant standard or with only minor changes to those tests methods (see paragraph (e)(2)(i) of this section), the owner or operator must conduct the performance test within the time specified in this section using the specified method(s);

(B) If the owner or operator intends to demonstrate compliance by using an alternative to any test method specified in the relevant standard, the owner or operator is authorized to conduct the performance test using an alternative test method after the Administrator approves the use of the alternative method when the Administrator approves the site-specific test plan (if review of the site-specific test plan is requested) or after the alternative method is approved (see paragraph (f) of this section). However, the owner or operator is authorized to conduct the performance test using an alternative method in the absence of notification of approval 45 days after submission of the site-specific test plan or request to use an alternative method. The owner or operator is authorized to conduct the performance test within 60 calendar days after he/she is authorized to demonstrate compliance using an alternative test method. Notwithstanding the requirements in the preceding three sentences, the owner or operator may proceed to conduct the performance test as required in this section (without the Administrator's prior approval of the site-specific test plan) if he/she subsequently chooses to use the specified testing and monitoring methods instead of an alternative.

(iii) Neither the submission of a site-specific test plan for approval, nor the Administrator's approval or disapproval of a plan, nor the Administrator's failure to approve or disapprove a plan in a timely manner shall –

(A) Relieve an owner or operator of legal responsibility for compliance with any applicable provisions of [40 CFR 63](#) or with any other applicable Federal, State, or local requirement; or

(B) Prevent the Administrator from implementing or enforcing [40 CFR 63](#) or taking any other action under the Act.

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(4)(i) Performance test method audit program. The owner or operator must analyze performance audit (PA) samples during each performance test. The owner or operator must request performance audit materials 30 days prior to the test date. Audit materials including cylinder audit gases may be obtained by contacting the appropriate EPA Regional Office or the responsible enforcement authority.

(ii) The Administrator will have sole discretion to require any subsequent remedial actions of the owner or operator based on the PA results.

(iii) If the Administrator fails to provide required PA materials to an owner or operator of an affected source in time to analyze the PA samples during a performance test, the requirement to conduct a PA under this paragraph shall be waived for such source for that performance test. Waiver under this paragraph of the requirement to conduct a PA for a particular performance test does not constitute a waiver of the requirement to conduct a PA for future required performance tests.

[40 CFR 63.7(c)]

(d) Performance testing facilities.

If required to do performance testing, the owner or operator of each new source and, at the request of the Administrator, the owner or operator of each existing source, shall provide performance testing facilities as follows:

(1) Sampling ports adequate for test methods applicable to such source. This includes:

(i) Constructing the air pollution control system such that volumetric flow rates and pollutant emissions rates can be accurately determined by applicable test methods and procedures; and

(ii) Providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures;

(2) Safe sampling platform(s);

(3) Safe access to sampling platform(s);

(4) Utilities for sampling and testing equipment; and

(5) Any other facilities that the Administrator deems necessary for safe and adequate testing of a source.

[40 CFR 63.7(d)]

(e) Conduct of performance tests.

(1) Performance tests shall be conducted under such conditions as the Administrator specifies to the owner or operator based on representative performance (i.e., performance based on normal operating conditions) of the affected source. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test, nor shall emissions in excess of the level of the relevant standard during periods of startup, shutdown, and malfunction be considered a violation of the relevant standard unless otherwise specified in the relevant standard or a determination of noncompliance is made under [§ 63.6\(e\)](#). Upon request, the owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of performance tests.

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(2) Performance tests shall be conducted and data shall be reduced in accordance with the test methods and procedures set forth in this section, in each relevant standard, and, if required, in applicable appendices of [parts 51](#), [60](#), [61](#), and 63 of this chapter unless the Administrator –(i) Specifies or approves, in specific cases, the use of a test method with minor changes in methodology (see definition in § 63.90(a)). Such changes may be approved in conjunction with approval of the site-specific test plan (see paragraph (c) of this section); or

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(ii) Approves the use of an intermediate or major change or alternative to a test method (see definitions in § 63.90(a)), the results of which the Administrator has determined to be adequate for indicating whether a specific affected source is in compliance; or

(iii) Approves shorter sampling times or smaller sample volumes when necessitated by process variables or other factors; or

(iv) Waives the requirement for performance tests because the owner or operator of an affected source has demonstrated by other means to the Administrator's satisfaction that the affected source is in compliance with the relevant standard.

(3) Unless otherwise specified in a relevant standard or test method, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the relevant standard. For the purpose of determining compliance with a relevant standard, the arithmetic mean of the results of the three runs shall apply. Upon receiving approval from the Administrator, results of a test run may be replaced with results of an additional test run in the event that –

(i) A sample is accidentally lost after the testing team leaves the site; or

(ii) Conditions occur in which one of the three runs must be discontinued because of forced shutdown; or

(iii) Extreme meteorological conditions occur; or

(iv) Other circumstances occur that are beyond the owner or operator's control.

(4) Nothing in paragraphs (e)(1) through (e)(3) of this section shall be construed to abrogate the Administrator's authority to require testing under section 114 of the Act.

[40 CFR 63.7(e)]

(f) Use of an alternative test method –

(1) General. Until authorized to use an intermediate or major change or alternative to a test method, the owner or operator of an affected source remains subject to the requirements of this section and the relevant standard.

(2) The owner or operator of an affected source required to do performance testing by a relevant standard may use an alternative test method from that specified in the standard provided that the owner or operator –

(i) Notifies the Administrator of his or her intention to use an alternative test method at least 60 days before the performance test is scheduled to begin;

(ii) Uses Method 301 in appendix A of this part to validate the alternative test method. This may include the use of specific procedures of Method 301 if use of such procedures are sufficient to validate the alternative test method; and

(iii) Submits the results of the Method 301 validation process along with the notification of intention and the justification for not using the specified test method. The owner or operator may submit the information

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required in this paragraph well in advance of the deadline specified in paragraph (f)(2)(i) of this section to ensure a timely review by the Administrator in order to meet the performance test date specified in this section or the relevant standard.

(3) The Administrator will determine whether the owner or operator's validation of the proposed alternative test method is adequate and issue an approval or disapproval of the alternative test method. If the owner or operator intends to demonstrate compliance by using an alternative to any test method specified in the relevant standard, the owner or operator is authorized to conduct the performance test using an alternative test method after the Administrator approves the use of the alternative method. However, the owner or operator is authorized to conduct the performance test using an alternative method in the absence of notification of approval/disapproval 45 days after submission of the request to use an alternative method and the request satisfies the requirements in paragraph (f)(2) of this section. The owner or operator is authorized to conduct the performance test within 60 calendar days after he/she is authorized to demonstrate compliance using an alternative test method. Notwithstanding the requirements in the preceding three sentences, the owner or operator may proceed to conduct the performance test as required in this section (without the Administrator's prior approval of the site-specific test plan) if he/she subsequently chooses to use the specified testing and monitoring methods instead of an alternative.

(4) If the Administrator finds reasonable grounds to dispute the results obtained by an alternative test method for the purposes of demonstrating compliance with a relevant standard, the Administrator may require the use of a test method specified in a relevant standard.

(5) If the owner or operator uses an alternative test method for an affected source during a required performance test, the owner or operator of such source shall continue to use the alternative test method for subsequent performance tests at that affected source until he or she receives approval from the Administrator to use another test method as allowed under § 63.7(f).

(6) Neither the validation and approval process nor the failure to validate an alternative test method shall abrogate the owner or operator's responsibility to comply with the requirements of [40 CFR 63](#).

[40 CFR 63.7(f)]

(g) Data analysis, recordkeeping, and reporting.

(1) Unless otherwise specified in a relevant standard or test method, or as otherwise approved by the Administrator in writing, results of a performance test shall include the analysis of samples, determination of emissions, and raw data. A performance test is "completed" when field sample collection is terminated. The owner or operator of an affected source shall report the results of the performance test to the Administrator before the close of business on the 60th day following the completion of the performance test, unless specified otherwise in a relevant standard or as approved otherwise in writing by the Administrator [see [§ 63.9\(i\)](#)]. The results of the performance test shall be submitted as part of the notification of compliance status required under [§ 63.9\(h\)](#). Before a title V permit has been issued to the owner or operator of an affected source, the owner or operator shall send the results of the performance test to the Administrator. After a title V permit has been issued to the owner or operator of an affected source, the owner or operator shall send the results of the performance test to the appropriate permitting authority.

(2) (Reserved).

(3) For a minimum of 5 years after a performance test is conducted, the owner or operator shall retain and make available, upon request, for inspection by the Administrator the records or results of such

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performance test and other data needed to determine emissions from an affected source.

[40 CFR 63.7(g)]

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(h) Waiver of performance tests.

(1) Until a waiver of a performance testing requirement has been granted by the Administrator under this paragraph, the owner or operator of an affected source remains subject to the requirements of this section.

(2) Individual performance tests may be waived upon written application to the Administrator if, in the Administrator's judgment, the source is meeting the relevant standard(s) on a continuous basis, or the source is being operated under an extension of compliance, or the owner or operator has requested an extension of compliance and the Administrator is still considering that request.

(3) Request to waive a performance test.

(i) If a request is made for an extension of compliance under [§ 63.6\(i\)](#), the application for a waiver of an initial performance test shall accompany the information required for the request for an extension of compliance. If no extension of compliance is requested or if the owner or operator has requested an extension of compliance and the Administrator is still considering that request, the application for a waiver of an initial performance test shall be submitted at least 60 days before the performance test if the site-specific test plan under paragraph (c) of this section is not submitted.

(ii) If an application for a waiver of a subsequent performance test is made, the application may accompany any required compliance progress report, compliance status report, or excess emissions and continuous monitoring system performance report [such as those required under [§ 63.6\(i\)](#), [§ 63.9\(h\)](#), and [§ 63.10\(e\)](#) or specified in a relevant standard or in the source's title V permit], but it shall be submitted at least 60 days before the performance test if the site-specific test plan required under paragraph (c) of this section is not submitted.

(iii) Any application for a waiver of a performance test shall include information justifying the owner or operator's request for a waiver, such as the technical or economic infeasibility, or the impracticality, of the affected source performing the required test.

(4) Approval of request to waive performance test. The Administrator will approve or deny a request for a waiver of a performance test made under paragraph (h)(3) of this section when he/she –

(i) Approves or denies an extension of compliance under [§ 63.6\(i\)\(8\)](#); or

(ii) Approves or disapproves a site-specific test plan under [§ 63.7\(c\)\(3\)](#); or

(iii) Makes a determination of compliance following the submission of a required compliance status report or excess emissions and continuous monitoring systems performance report; or

(iv) Makes a determination of suitable progress towards compliance following the submission of a compliance progress report, whichever is applicable.

(5) Approval of any waiver granted under this section shall not abrogate the Administrator's authority under the Act or in any way prohibit the Administrator from later canceling the waiver. The cancellation will be made only after notice is given to the owner or operator of the affected source.

[40 CFR 63.7(h)]

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Monitoring requirements

(a) Applicability.

(1)(i) Unless otherwise specified in a relevant standard, this section applies to the owner or operator of an affected source required to do monitoring under that standard.

(ii) Relevant standards established under [40 CFR 63](#) will specify monitoring systems, methods, or procedures, monitoring frequency, and other pertinent requirements for source(s) regulated by those standards. This section specifies general monitoring requirements such as those governing the conduct of monitoring and requests to use alternative monitoring methods. In addition, this section specifies detailed requirements that apply to affected sources required to use continuous monitoring systems (CMS) under a relevant standard.

[40 CFR 63.8(a)]

b) Conduct of monitoring.

(1) Monitoring shall be conducted as set forth in this section and the relevant standard(s) unless the Administrator

(i) Specifies or approves the use of minor changes in methodology for the specified monitoring requirements and procedures (see § 63.90(a) for definition); or

(ii) Approves the use of an intermediate or major change or alternative to any monitoring requirements or procedures (see § 63.90(a) for definition).

(iii) Owners or operators with flares subject to [§ 63.11\(b\)](#) are not subject to the requirements of this section unless otherwise specified in the relevant standard.

(2)(i) When the emissions from two or more affected sources are combined before being released to the atmosphere, the owner or operator may install an applicable CMS for each emission stream or for the combined emissions streams, provided the monitoring is sufficient to demonstrate compliance with the relevant standard.

(ii) If the relevant standard is a mass emission standard and the emissions from one affected source are released to the atmosphere through more than one point, the owner or operator must install an applicable MS at each emission point unless the installation of fewer systems is--

(A) Approved by the Administrator; or

(B) Provided for in a relevant standard (e.g., instead of requiring that a CMS be installed at each emissions point before the effluents from those points are channeled to a common control device, the standard specifies that only one CMS is required to be installed at the vent of the control device).

(3) When more than one CMS is used to measure the emissions from one affected source (e.g., multiple breechings, multiple outlets), the owner or operator shall report the results as required for each CMS. However, when one CMS is used as a backup to another CMS, the owner or operator shall report the results from the CMS used to meet the monitoring requirements of [40 CFR 63](#). If both such CMS are used during a particular reporting period to meet the monitoring requirements of [40 CFR 63](#), then the owner or operator shall report the results from each CMS for the relevant compliance period.

[40 CFR 63.8(b)]

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(c) Operation and maintenance of continuous monitoring systems.

(1) (i) The owner or operator of an affected source must maintain and operate each CMS as specified in § 63.6(e)(1).

(ii) The owner or operator must keep the necessary parts for routine repairs of the affected CMS equipment readily available.

(iii) The owner or operator of an affected source must develop and implement a written startup, shutdown, and malfunction plan for CMS as specified in § 63.6(e)(3).

(2) (i) All CMS must be installed such that representative measures of emissions or process parameters from the affected source are obtained. In addition, CEMS must be located according to procedures contained in the applicable performance specification(s).

(ii) Unless the individual subpart states otherwise, the owner or operator must ensure the read out (that portion of the CMS that provides a visual display or record), or other indication of operation, from any CMS required for compliance with the emission standard is readily accessible on site for operational control or inspection by the operator of the equipment.

(3) All CMS shall be installed, operational, and the data verified as specified in the relevant standard either prior to or in conjunction with conducting performance tests under §63.7. Verification of operational status shall, at a minimum, include completion of manufacturer written specifications or recommendations for installation, operation, and calibration of the system.

(4) Except for system breakdowns, out-of-control periods, repairs, maintenance periods, calibration checks, and zero (low-level) and high-level calibration drift adjustments, all CMS, including COMS and CEMS, shall be in continuous operation and shall meet minimum frequency of operation requirements as follows:

(i) All COMS shall complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period.

(ii) All CEMS for measuring emissions other than opacity shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.

[40 CFR 63.8(c)]

(a) Quality control program.

(1) The results of the quality control program required in this paragraph will be considered by the Administrator when he/she determines the validity of monitoring data.

(2) The owner or operator of an affected source that is required to use a CMS and is subject to the monitoring requirements of this section and a relevant standard shall develop and implement a CMS quality control program. As part of the quality control program, the owner or operator shall develop and submit to the Administrator for approval upon request a site-specific performance evaluation test plan for the CMS performance evaluation required in paragraph (e)(3)(i) of this section, according to the procedures specified in paragraph (e). In addition, each quality control program shall include, at a minimum, a written protocol that describes procedures for each of the following operations:

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- (i) Initial and any subsequent calibration of the CMS;
- (ii) Determination and adjustment of the calibration drift of the CMS;
- (iii) Preventive maintenance of the CMS, including spare parts inventory;
- (iv) Data recording, calculations, and reporting;
- (v) Accuracy audit procedures, including sampling and analysis methods; and
- (vi) Program of corrective action for a malfunctioning CMS.

(3) The owner or operator shall keep these written procedures on record for the life of the affected source or until the affected source is no longer subject to the provisions of 40 CFR 63, to be made available for inspection, upon request, by the Administrator. If the performance evaluation plan is revised, the owner or operator shall keep previous (i.e., superseded) versions of the performance evaluation plan on record to be made available for inspection, upon request, by the Administrator, for a period of 5 years after each revision to the plan. Where relevant, e.g., program of corrective action for a malfunctioning CMS, these written procedures may be incorporated as part of the affected source's startup, shutdown, and malfunction plan to avoid duplication of planning and recordkeeping efforts.

[40 CFR 63.8(d)]

(e) Not applicable.

(f) Use of an alternative monitoring method –

(1) General. Until permission to use an alternative monitoring procedure (minor, intermediate, or major changes; see definition in § 63.90(a)) has been granted by the Administrator under this paragraph (f)(1), the owner or operator of an affected source remains subject to the requirements of this section and the relevant standard.

(2) After receipt and consideration of written application, the Administrator may approve alternatives to any monitoring methods or procedures of 40 CFR 63 including, but not limited to, the following:

- (i) Alternative monitoring requirements when installation of a CMS specified by a relevant standard would not provide accurate measurements due to liquid water or other interferences caused by substances within the effluent gases;
- (ii) Alternative monitoring requirements when the affected source is infrequently operated;
- (iii) Alternative monitoring requirements to accommodate CEMS that require additional measurements to correct for stack moisture conditions;
- (iv) Alternative locations for installing CMS when the owner or operator can demonstrate that installation at alternate locations will enable accurate and representative measurements;
- (v) Alternate methods for converting pollutant concentration measurements to units of the relevant standard;
- (vi) Alternate procedures for performing daily checks of zero (low-level) and high-level drift that do not involve use of high-level gases or test cells;

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(vii) Alternatives to the American Society for Testing and Materials (ASTM) test methods or sampling procedures specified by any relevant standard;

(viii) Alternative CMS that do not meet the design or performance requirements in 40 CFR 63, but adequately demonstrate a definite and consistent relationship between their measurements and the measurements of opacity by a system complying with the requirements as specified in the relevant standard. The Administrator may require that such demonstration be performed for each affected source; or

(ix) Alternative monitoring requirements when the effluent from a single affected source or the combined effluent from two or more affected sources is released to the atmosphere through more than one point.

(3) If the Administrator finds reasonable grounds to dispute the results obtained by an alternative monitoring method, requirement, or procedure, the Administrator may require the use of a method, requirement, or procedure specified in this section or in the relevant standard. If the results of the specified and alternative method, requirement, or procedure do not agree, the results obtained by the specified method, requirement, or procedure shall prevail.

(4)(i) Request to use alternative monitoring procedure. An owner or operator who wishes to use an alternative monitoring procedure must submit an application to the Administrator as described in paragraph (f)(4)(ii) of this section. The application may be submitted at any time provided that the monitoring procedure is not the performance test method used to demonstrate compliance with a relevant standard or other requirement. If the alternative monitoring procedure will serve as the performance test method that is to be used to demonstrate compliance with a relevant standard, the application must be submitted at least 60 days before the performance evaluation is scheduled to begin and must meet the requirements for an alternative test method under § 63.7(f).

(ii) The application must contain a description of the proposed alternative monitoring system which addresses the four elements contained in the definition of monitoring in § 63.2 and a performance evaluation test plan, if required, as specified in paragraph (e)(3) of this section. In addition, the application must include information justifying the owner or operator's request for an alternative monitoring method, such as the technical or economic infeasibility, or the impracticality, of the affected source using the required method.

(iii) The owner or operator may submit the information required in this paragraph well in advance of the submittal dates specified in paragraph (f)(4)(i) above to ensure a timely review by the Administrator in order to meet the compliance demonstration date specified in this section or the relevant standard.

(iv) Application for minor changes to monitoring procedures, as specified in paragraph (b)(1) of this section, may be made in the site-specific performance evaluation plan.

(5) Approval of request to use alternative monitoring method.

(i) The Administrator will notify the owner or operator of approval or intention to deny approval of the request to use an alternative monitoring method within 30 calendar days after receipt of the original request and within 30 calendar days after receipt of any supplementary information that is submitted. If a request for a minor change is made in conjunction with site-specific performance evaluation plan, then approval of the plan will constitute approval of the minor change. Before disapproving any request to use an alternative monitoring method, the Administrator will notify the applicant of the Administrator's intention to disapprove

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the request together with--

(A) Notice of the information and findings on which the intended disapproval is based; and

(B) Notice of opportunity for the owner or operator to present additional information to the Administrator before final action on the request. At the time the Administrator notifies the applicant of his or her intention to disapprove the request, the Administrator will specify how much time the owner or operator will have after being notified of the intended disapproval to submit the additional information.

(ii) The Administrator may establish general procedures and criteria in a relevant standard to accomplish the requirements of paragraph (f)(5)(i) of this section.

(iii) If the Administrator approves the use of an alternative monitoring method for an affected source under paragraph (f)(5)(i) of this section, the owner or operator of such source shall continue to use the alternative monitoring method until he or she receives approval from the Administrator to use another monitoring method as allowed by § 63.8(f).

[40 CFR 63.8(f)]

(g) Reduction of monitoring data.

(1) The owner or operator of each CMS must reduce the monitoring data as specified in paragraphs (g)(1) through (5) of this section.

(2) Not applicable.

(3) The data may be recorded in reduced or nonreduced form (e.g., ppm pollutant and percent O₂ or ng/J of pollutant).

(4) All emissions data shall be converted into units of the relevant standard for reporting purposes using the conversion procedures specified in that standard. After conversion into units of the relevant standard, the data may be rounded to the same number of significant digits as used in that standard to specify the emissions limit (e.g., rounded to the nearest 1 percent opacity).

(5) Monitoring data recorded during periods of unavoidable CMS breakdowns, out-of-control periods, repairs, maintenance periods, calibration checks, and zero (low-level) and high-level adjustments must not be included in any data average computed under this part. For the owner or operator complying with the requirements of § 63.10(b)(2)(vii)(A) or (B), data averages must include any data recorded during periods of monitor breakdown or malfunction.

[40 CFR 63.8(g)]

Notification Requirements

(a) Applicability and general information.

(1) The applicability of this section is set out in § 63.1(a)(4).

(2) For affected sources that have been granted an extension of compliance under subpart D of 40 CFR 63, the requirements of this section do not apply to those sources while they are operating under such compliance extensions.

(3) If any State requires a notice that contains all the information required in a notification listed in this

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section, the owner or operator may send the Administrator a copy of the notice sent to the State to satisfy the requirements of this section for that notification.

(4)(i) Before a State has been delegated the authority to implement and enforce notification requirements established under 40 CFR 63, the owner or operator of an affected source in such State subject to such requirements shall submit notifications to the appropriate Regional Office of the EPA (to the attention of the Director of the Division indicated in the list of the EPA Regional Offices in § 63.13).

(ii) After a State has been delegated the authority to implement and enforce notification requirements established under 40 CFR 63, the owner or operator of an affected source in such State subject to such requirements shall submit notifications to the delegated State authority (which may be the same as the permitting authority). In addition, if the delegated (permitting) authority is the State, the owner or operator shall send a copy of each notification submitted to the State to the appropriate Regional Office of the EPA, as specified in paragraph (a)(4)(i) of this section. The Regional Office may waive this requirement for any notifications at its discretion.

[40 CFR 63.9(a)]

(b) Initial notifications.

(1)(i) The requirements of this paragraph apply to the owner or operator of an affected source when such source becomes subject to a relevant standard.

(ii) If an area source that otherwise would be subject to an emissions standard or other requirement established under 40 CFR 63 if it were a major source subsequently increases its emissions of hazardous air pollutants (or its potential to emit hazardous air pollutants) such that the source is a major source that is subject to the emissions standard or other requirement, such source shall be subject to the notification requirements of this section.

(iii) Affected sources that are required under this paragraph to submit an initial notification may use the application for approval of construction or reconstruction under § 63.5(d) of this subpart, if relevant, to fulfill the initial notification requirements of this paragraph.

(2) The owner or operator of an affected source that has an initial startup before the effective date of a relevant standard under 40 CFR 63 shall notify the Administrator in writing that the source is subject to the relevant standard. The notification, which shall be submitted not later than 120 calendar days after the effective date of the relevant standard (or within 120 calendar days after the source becomes subject to the relevant standard), shall provide the following information:

(i) The name and address of the owner or operator;

(ii) The address (i.e., physical location) of the affected source;

(iii) An identification of the relevant standard, or other requirement, that is the basis of the notification and the source's compliance date;

(iv) A brief description of the nature, size, design, and method of operation of the source and an identification of the types of emission points within the affected source subject to the relevant standard and types of hazardous air pollutants emitted; and

(v) A statement of whether the affected source is a major source or an area source.

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(3) Reserved

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(4) The owner or operator of a new or reconstructed major affected source for which an application for approval of construction or reconstruction is required under § 63.5(d) must provide the following information in writing to the Administrator:

(i) A notification of intention to construct a new major-emitting affected source, reconstruct a major-emitting affected source, or reconstruct a major source such that the source becomes a major-emitting affected source with the application for approval of construction or reconstruction as specified in § 63.5(d)(1)(i); and

(ii) Reserved

(iii) Reserved

(iv) (Reserved).

(v) A notification of the actual date of startup of the source, delivered or postmarked within 15 calendar days after that date.

(5) The owner or operator of a new or reconstructed affected source for which an application for approval of construction or reconstruction is not required under § 63.5(d) must provide the following information in writing to the Administrator:

(i) A notification of intention to construct a new affected source, reconstruct an affected source, or reconstruct a source such that the source becomes an affected source, and

(ii) A notification of the actual date of startup of the source, delivered or postmarked within 15 calendar days after that date.

(iii) Unless the owner or operator has requested and received prior permission from the Administrator to submit less than the information in § 63.5(d), the notification must include the information required on the application for approval of construction or reconstruction as specified in § 63.5(d)(1)(i).

[40 CFR 63.9(b)]

(c) Request for extension of compliance.

If the owner or operator of an affected source cannot comply with a relevant standard by the applicable compliance date for that source, or if the owner or operator has installed BACT or technology to meet LAER consistent with [§ 63.6\(i\)\(5\) of this subpart](#), he/she may submit to the Administrator (or the State with an approved permit program) a request for an extension of compliance as specified in [§ 63.6\(i\)\(4\)](#) through [§ 63.6\(i\)\(6\)](#).

[40 CFR 63.9(c)]

(d) Notification that source is subject to special compliance requirements.

An owner or operator of a new source that is subject to special compliance requirements as specified in [§ 63.6\(b\)\(3\)](#) and [§ 63.6\(b\)\(4\)](#) shall notify the Administrator of his/her compliance obligations not later than the notification dates established in paragraph (b) of this section for new sources that are not subject to the special provisions.

[40 CFR 63.9(d)]

(e) Notification of performance test.

The owner or operator of an affected source shall notify the Administrator in writing of his or her intention

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to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin to allow the Administrator to review and approve the site-specific test plan required under [§ 63.7\(c\)](#), if requested by the Administrator, and to have an observer present during the test.

[40 CFR 63.9(e)]

(f) Not applicable.

(g) Not applicable

(h) Notification of compliance status.

(1) The requirements of paragraphs (h)(2) through (h)(4) of this section apply when an affected source becomes subject to a relevant standard.

(2) Only applicable prior to issuance of a Title V permit.

(3) After a title V permit has been issued to the owner or operator of an affected source, the owner or operator of such source shall comply with all requirements for compliance status reports contained in the source's title V permit, including reports required under [40 CFR 63](#). After a title V permit has been issued to the owner or operator of an affected source, and each time a notification of compliance status is required under [40 CFR 63](#), the owner or operator of such source shall submit the notification of compliance status to the appropriate permitting authority following completion of the relevant compliance demonstration activity specified in the relevant standard.

(4) (Reserved).

(5) If an owner or operator of an affected source submits estimates or preliminary information in the application for approval of construction or reconstruction required in [§ 63.5\(d\)](#) in place of the actual emissions data or control efficiencies required in paragraphs (d)(1)(ii)(H) and (d)(2) of [§ 63.5](#), the owner or operator shall submit the actual emissions data and other correct information as soon as available but no later than with the initial notification of compliance status required in this section.

(6) Advice on a notification of compliance status may be obtained from the Administrator.

[40 CFR 63.9(h)]

(i) Adjustment to time periods or postmark deadlines for submittal and review of required communications.

(1)(i) Until an adjustment of a time period or postmark deadline has been approved by the Administrator under paragraphs (i)(2) and (i)(3) of this section, the owner or operator of an affected source remains strictly subject to the requirements of [40 CFR 63](#).

(ii) An owner or operator shall request the adjustment provided for in paragraphs (i)(2) and (i)(3) of this section each time he or she wishes to change an applicable time period or postmark deadline specified in [40 CFR 63](#).

(2) Notwithstanding time periods or postmark deadlines specified in [40 CFR 63](#) for the submittal of information to the Administrator by an owner or operator, or the review of such information by the Administrator, such time periods or deadlines may be changed by mutual agreement between the owner or operator and the Administrator. An owner or operator who wishes to request a change in a time period or

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postmark deadline for a particular requirement shall request the adjustment in writing as soon as practicable before the subject activity is required to take place. The owner or operator shall include in the request whatever information he or she considers useful to convince the Administrator that an adjustment is warranted.

(3) If, in the Administrator's judgment, an owner or operator's request for an adjustment to a particular time period or postmark deadline is warranted, the Administrator will approve the adjustment. The Administrator will notify the owner or operator in writing of approval or disapproval of the request for an adjustment within 15 calendar days of receiving sufficient information to evaluate the request.

(4) If the Administrator is unable to meet a specified deadline, he or she will notify the owner or operator of any significant delay and inform the owner or operator of the amended schedule.

[40 CFR 63.9(i)]

(j) Change in information already provided.

Any change in the information already provided under this section shall be provided to the Administrator in writing within 15 calendar days after the change.

[40 CFR 63.9(j)]

Recordkeeping and Reporting Requirements

(a) Applicability and general information.

(1) The applicability of this section is set out in § 63.1(a)(4).

(2) For affected sources that have been granted an extension of compliance under [subpart D of 40 CFR 63](#), the requirements of this section do not apply to those sources while they are operating under such compliance extensions.

(3) If any State requires a report that contains all the information required in a report listed in this section, an owner or operator may send the Administrator a copy of the report sent to the State to satisfy the requirements of this section for that report.

(4)(i) Before a State has been delegated the authority to implement and enforce recordkeeping and reporting requirements established under [40 CFR 63](#), the owner or operator of an affected source in such State subject to such requirements shall submit reports to the appropriate Regional Office of the EPA (to the attention of the Director of the Division indicated in the list of the EPA Regional Offices in [§ 63.13](#)).

(ii) After a State has been delegated the authority to implement and enforce recordkeeping and reporting requirements established under [40 CFR 63](#), the owner or operator of an affected source in such State subject to such requirements shall submit reports to the delegated State authority (which may be the same as the permitting authority). In addition, if the delegated (permitting) authority is the State, the owner or operator shall send a copy of each report submitted to the State to the appropriate Regional Office of the EPA, as specified in paragraph (a)(4)(i) of this section. The Regional Office may waive this requirement for any reports at its discretion.

(5) If an owner or operator of an affected source in a State with delegated authority is required to submit periodic reports under [40 CFR 63](#) to the State, and if the State has an established timeline for the submission of periodic reports that is consistent with the reporting frequency(ies) specified for such source under [40 CFR 63](#), the owner or operator may change the dates by which periodic reports under [40 CFR](#)

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[63](#) shall be submitted (without changing the frequency of reporting) to be consistent with the State's schedule by mutual agreement between the owner or operator and the State. For each relevant standard established pursuant to section 112 of the Act, the allowance in the previous sentence applies in each State beginning 1 year after the affected source's compliance date for that standard. Procedures governing the implementation of this provision are specified in [§ 63.9\(i\)](#).

(6) If an owner or operator supervises one or more stationary sources affected by more than one standard established pursuant to section 112 of the Act, he/she may arrange by mutual agreement between the owner or operator and the Administrator (or the State permitting authority) a common schedule on which periodic reports required for each source shall be submitted throughout the year. The allowance in the previous sentence applies in each State beginning 1 year after the latest compliance date for any relevant standard established pursuant to section 112 of the Act for any such affected source(s). Procedures governing the implementation of this provision are specified in [§ 63.9\(i\)](#).

(7) If an owner or operator supervises one or more stationary sources affected by standards established pursuant to section 112 of the Act (as amended November 15, 1990) and standards set under [part 60](#), [part 61](#), or both such parts of this chapter, he/she may arrange by mutual agreement between the owner or operator and the Administrator (or the State permitting authority) a common schedule on which periodic reports required by each relevant (i.e., applicable) standard shall be submitted throughout the year. The allowance in the previous sentence applies in each State beginning 1 year after the stationary source is required to be in compliance with the relevant section 112 standard, or 1 year after the stationary source is required to be in compliance with the applicable [part 60](#) or [part 61](#) standard, whichever is latest. Procedures governing the implementation of this provision are specified in [§ 63.9\(i\)](#).

[40 CFR 63.10(a)]

(b) General recordkeeping requirements.

(1) The owner or operator of an affected source subject to the provisions of [40 CFR 63](#) shall maintain files of all information (including all reports and notifications) required by [40 CFR 63](#) recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained onsite. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche.

(2) The owner or operator of an affected source subject to the provisions of [40 CFR 63](#) shall maintain relevant records for such source of –

(i) The occurrence and duration of each startup, shutdown, or malfunction of operation (i.e., process equipment);

(ii) The occurrence and duration of each malfunction of the required air pollution control and monitoring equipment;

(iii) All required maintenance performed on the air pollution control and monitoring equipment;

(iv) Actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation) when such actions are different from the procedures specified in the affected source's startup, shutdown, and malfunction plan (see [§ 63.6\(e\)\(3\)](#));

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(v) All information necessary to demonstrate conformance with the affected source's startup, shutdown, and malfunction plan (see § 63.6(e)(3)) when all actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation) are consistent with the procedures specified in such plan. (The information needed to demonstrate conformance with the startup, shutdown, and malfunction plan may be recorded using a "checklist," or some other effective form of recordkeeping, in order to minimize the recordkeeping burden for conforming events);

(vi) Each period during which a CMS is malfunctioning or inoperative (including out-of-control periods);

(vii) All required measurements needed to demonstrate compliance with a relevant standard (including, but not limited to, 15-minute averages of CMS data, raw performance testing measurements, and raw performance evaluation measurements, that support data that the source is required to report);

(A) This paragraph applies to owners or operators required to install a continuous emissions monitoring system (CEMS) where the CEMS installed is automated, and where the calculated data averages do not exclude periods of CEMS breakdown or malfunction. An automated CEMS records and reduces the measured data to the form of the pollutant emissions standard through the use of a computerized data acquisition system. In lieu of maintaining a file of all CEMS subhourly measurements as required under paragraph (b)(2)(vii) of this section, the owner or operator shall retain the most recent consecutive three averaging periods of subhourly measurements and a file that contains a hard copy of the data acquisition system algorithm used to reduce the measured data into the reportable form of the standard.

(B) This paragraph applies to owners or operators required to install a CEMS where the measured data is manually reduced to obtain the reportable form of the standard, and where the calculated data averages do not exclude periods of CEMS breakdown or malfunction. In lieu of maintaining a file of all CEMS subhourly measurements as required under paragraph (b)(2)(vii) of this section, the owner or operator shall retain all subhourly measurements for the most recent reporting period. The subhourly measurements shall be retained for 120 days from the date of the most recent summary or excess emissions report submitted to the Administrator.

(C) The Administrator or delegated authority, upon notification to the source, may require the owner or operator to maintain all measurements as required by paragraph (b)(2)(vii), if the administrator or the delegated authority determines these records are required to more accurately assess the compliance status of the affected source.

(viii) All results of performance tests, CMS performance evaluations, and opacity and visible emissions observations;

(ix) All measurements as may be necessary to determine the conditions of performance tests and performance evaluations;

(x) All CMS calibration checks;

(xi) All adjustments and maintenance performed on CMS;

(xii) Any information demonstrating whether a source is meeting the requirements for a waiver of recordkeeping or reporting requirements under [40 CFR 63](#), if the source has been granted a waiver under paragraph (f) of this section;

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(xiii) All emissions levels relative to the criterion for obtaining permission to use an alternative to the relative accuracy test, if the source has been granted such permission under [§ 63.8\(f\)\(6\)](#); and

(xiv) All documentation supporting initial notifications and notifications of compliance status under [§ 63.9](#).

(3) Recordkeeping requirement for applicability determinations. If an owner or operator determines that his or her stationary source that emits (or has the potential to emit, without considering controls) one or more hazardous air pollutants regulated by any standard established pursuant to section 112(d) or (f), and that stationary source is in the source category regulated by the relevant standard, but that source is not subject

to the relevant standard (or other requirement established under this part) because of limitations on the source's potential to emit or an exclusion, the owner or operator must keep a record of the applicability determination on site at the source for a period of 5 years after the determination, or until the source changes its operations to become an affected source, whichever comes first. The record of the applicability determination must be signed by the person making the determination and include an analysis (or other information) that demonstrates why the owner or operator believes the source is unaffected (e.g., because the source is an area source). The analysis (or other information) must be sufficiently detailed to allow the Administrator to make a finding about the source's applicability status with regard to the relevant standard or other requirement. If relevant, the analysis must be performed in accordance with requirements

established in relevant subparts of this part for this purpose for particular categories of stationary sources. If relevant, the analysis should be performed in accordance with EPA guidance materials published to assist

sources in making applicability determinations under section 112, if any. The requirements to determine applicability of a standard under § 63.1(b)(3) and to record the results of that determination under paragraph (b)(3) of this section shall not by themselves create an obligation for the owner or operator to obtain a title V permit.

[40 CFR 63.10(b)]

(c) Additional recordkeeping requirements for sources with continuous monitoring systems

In addition to complying with the requirements specified in paragraphs (b)(1) and (b)(2) of this section, the owner or operator of an affected source required to install a CMS by a relevant standard shall maintain records for such source of –

(1) All required CMS measurements (including monitoring data recorded during unavoidable CMS breakdowns and out-of-control periods);

(2) - (4) (Reserved).

(5) The date and time identifying each period during which the CMS was inoperative except for zero (low-level) and high-level checks;

(6) Not applicable.

(7) The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions and parameter monitoring exceedances, as defined in the relevant standard(s), that occurs during startups, shutdowns, and malfunctions of the affected source;

(8) The specific identification (i.e., the date and time of commencement and completion) of each time period of excess emissions and parameter monitoring exceedances, as defined in the relevant standard(s), that occurs during periods other than startups, shutdowns, and malfunctions of the affected source;

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(9) (Reserved).

(10) The nature and cause of any malfunction (if known);

(11) The corrective action taken or preventive measures adopted;

(12) The nature of the repairs or adjustments to the CMS that was inoperative or out of control;

(13) The total process operating time during the reporting period

(14) Not applicable.

(15) In order to satisfy the requirements of paragraphs (c)(10) through (c)(12) of this section and to avoid duplicative recordkeeping efforts, the owner or operator may use the affected source's startup, shutdown, and malfunction plan or records kept to satisfy the recordkeeping requirements of the startup, shutdown, and malfunction plan specified in [§ 63.6\(e\)](#), provided that such plan and records adequately address the requirements of paragraphs (c)(10) through (c)(12).

[40 CFR 63.10(c)]

(d) General reporting requirements.

(1) Notwithstanding the requirements in this paragraph or paragraph (e) of this section, the owner or operator of an affected source subject to reporting requirements under [40 CFR 63](#) shall submit reports to the Administrator in accordance with the reporting requirements in the relevant standard(s).

(2) Reporting results of performance tests. Before a title V permit has been issued to the owner or operator of an affected source, the owner or operator shall report the results of any performance test under [§ 63.7](#) to the Administrator. After a title V permit has been issued to the owner or operator of an affected source, the owner or operator shall report the results of a required performance test to the appropriate permitting authority. The owner or operator of an affected source shall report the results of the performance test to the Administrator (or the State with an approved permit program) before the close of business on the 60th day following the completion of the performance test, unless specified otherwise in a relevant standard or as approved otherwise in writing by the Administrator. The results of the performance test shall be submitted as part of the notification of compliance status required under [§ 63.9\(h\)](#).

(3) Not applicable.

(4) Progress reports. The owner or operator of an affected source who is required to submit progress reports as a condition of receiving an extension of compliance under [§ 63.6\(i\)](#) shall submit such reports to the Administrator (or the State with an approved permit program) by the dates specified in the written extension of compliance.

(5)(i) Periodic startup, shutdown, and malfunction reports. If actions taken by an owner or operator during a startup, shutdown, or malfunction of an affected source (including actions taken to correct a malfunction) are consistent with the procedures specified in the source's startup, shutdown, and malfunction plan [see [§ 63.6\(e\)\(3\)](#)], the owner or operator shall state such information in a startup, shutdown, and malfunction report. Reports shall only be required if a startup, shutdown, or malfunction occurred during the reporting period, and they must include the number, duration, and a brief description of each startup, shutdown, or malfunction. . The startup, shutdown, and malfunction report shall consist of a letter, containing the

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name, title, and signature of the owner or operator or other responsible official who is certifying its accuracy, that shall be submitted to the Administrator semiannually (or on a more frequent basis if specified otherwise in a relevant standard or as established otherwise by the permitting authority in the source's title V permit). The startup, shutdown, and malfunction report shall be delivered or postmarked by the 30th day following the end of each calendar half (or other calendar reporting period, as appropriate). If the owner or operator is required to submit excess emissions and continuous monitoring system performance (or other periodic) reports under [40 CFR 63](#), the startup, shutdown, and malfunction reports required under this paragraph may be submitted simultaneously with the excess emissions and continuous monitoring system performance (or other) reports. If startup, shutdown, and malfunction reports are submitted with excess emissions and continuous monitoring system performance (or other periodic) reports, and the owner or operator receives approval to reduce the frequency of reporting for the latter under paragraph (e) of this section, the frequency of reporting for the startup, shutdown, and malfunction reports also may be reduced if the Administrator does not object to the intended change. The procedures to implement the allowance in the preceding sentence shall be the same as the procedures specified in paragraph (e)(3) of this section.

(ii) Immediate startup, shutdown, and malfunction reports. Notwithstanding the allowance to reduce the frequency of reporting for periodic startup, shutdown, and malfunction reports under paragraph (d)(5)(i) of this section, any time an action taken by an owner or operator during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) is not consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, the owner or operator shall report the actions taken for that event within 2 working days after commencing actions inconsistent with the plan followed by a letter within 7 working days after the end of the event. The immediate report required under this paragraph shall consist of a telephone call (or facsimile [FAX] transmission) to the Administrator within 2 working days after commencing actions inconsistent with the plan, and it shall be followed by a letter, delivered or postmarked within 7 working days after the end of the event, that contains the name, title, and signature of the owner or operator or other responsible official who is certifying its accuracy, explaining the circumstances of the event, the reasons for not following the startup, shutdown, and malfunction plan, and whether any excess emissions and/or parameter monitoring exceedances are believed to have occurred. Notwithstanding the requirements of the previous sentence, after the effective date of an approved permit program in the State in which an affected source is located, the owner or operator may make alternative reporting arrangements, in advance, with the permitting authority in that State. Procedures governing the arrangement of alternative reporting requirements under this paragraph are specified in [§ 63.9\(i\)](#).

[40 CFR 63.10(d)]

(e) (1)(2) Not applicable.

(3) Excess emissions and continuous monitoring system performance report and summary report.

(i) Excess emissions and parameter monitoring exceedances are defined in relevant standards. The owner or operator of an affected source required to install a CMS by a relevant standard shall submit an excess emissions and continuous monitoring system performance report and/or a summary report to the Administrator semiannually, except when –

(A) More frequent reporting is specifically required by a relevant standard;

(B) The Administrator determines on a case-by-case basis that more frequent reporting is necessary to accurately assess the compliance status of the source; or

(C) (Reserved).

(ii) Request to reduce frequency of excess emissions and continuous monitoring system performance

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reports. Notwithstanding the frequency of reporting requirements specified in paragraph (e)(3)(i) of this section, an owner or operator who is required by a relevant standard to submit excess emissions and continuous monitoring system performance (and summary) reports on a quarterly (or more frequent) basis may reduce the frequency of reporting for that standard to semiannual if the following conditions are met:

(A) For 1 full year (e.g., 4 quarterly or 12 monthly reporting periods) the affected source's excess emissions and continuous monitoring system performance reports continually demonstrate that the source is in compliance with the relevant standard;

(B) The owner or operator continues to comply with all recordkeeping and monitoring requirements specified in [this subpart](#) and the relevant standard; and

(C) The Administrator does not object to a reduced frequency of reporting for the affected source, as provided in paragraph (e)(3)(iii) of this section.

(iii) The frequency of reporting of excess emissions and continuous monitoring system performance (and summary) reports required to comply with a relevant standard may be reduced only after the owner or operator notifies the Administrator in writing of his or her intention to make such a change and the Administrator does not object to the intended change. In deciding whether to approve a reduced frequency of reporting, the Administrator may review information concerning the source's entire previous performance history during the 5-year recordkeeping period prior to the intended change, including performance test results, monitoring data, and evaluations of an owner or operator's conformance with operation and maintenance requirements. Such information may be used by the Administrator to make a judgment about the source's potential for noncompliance in the future. If the Administrator disapproves the owner or operator's request to reduce the frequency of reporting, the Administrator will notify the owner or operator in writing within 45 days after receiving notice of the owner or operator's intention. The notification from the Administrator to the owner or operator will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted.

(iv) As soon as CMS data indicate that the source is not in compliance with any emissions limitation or operating parameter specified in the relevant standard, the frequency of reporting shall revert to the frequency specified in the relevant standard, and the owner or operator shall submit an excess emissions and continuous monitoring system performance (and summary) report for the noncomplying emissions points at the next appropriate reporting period following the noncomplying event. After demonstrating ongoing compliance with the relevant standard for another full year, the owner or operator may again request approval from the Administrator to reduce the frequency of reporting for that standard, as provided for in paragraphs (e)(3)(ii) and (e)(3)(iii) of this section.

(v) Content and submittal dates for excess emissions and monitoring system performance reports. All excess emissions and monitoring system performance reports and all summary reports, if required, shall be delivered or postmarked by the 30th day following the end of each calendar half or quarter, as appropriate. Written reports of excess emissions or exceedances of process or control system parameters shall include all the information required in paragraphs (c)(5) through (c)(13) of this section, in [§ 63.8\(c\)\(7\)](#) and [§ 63.8\(c\)\(8\)](#), and in the relevant standard, and they shall contain the name, title, and signature of the responsible official who is certifying the accuracy of the report. When no excess emissions or exceedances of a parameter have occurred, or a CMS has not been inoperative, out of control, repaired, or adjusted, such information shall be stated in the report.

(vi) Summary report. As required under paragraphs (e)(3)(vii) and (e)(3)(viii) of this section, one summary report shall be submitted for the hazardous air pollutants monitored at each affected source (unless the

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relevant standard specifies that more than one summary report is required, e.g., one summary report for each hazardous air pollutant monitored). The summary report shall be entitled "Summary Report -- Gaseous and Opacity Excess Emission and Continuous Monitoring System Performance" and shall contain the following information:

- (A) The company name and address of the affected source;
 - (B) An identification of each hazardous air pollutant monitored at the affected source;
 - (C) The beginning and ending dates of the reporting period;
 - (D) A brief description of the process units;
 - (E) The emissions and operating parameter limitations specified in the relevant standard(s);
 - (F) The monitoring equipment manufacturer(s) and model number(s);
 - (G) The date of the latest CMS certification or audit;
 - (H) The total operating time of the affected source during the reporting period;
 - (I) An emissions data summary (or similar summary if the owner or operator monitors control system parameters), including the total duration of excess emissions during the reporting period (recorded in minutes for opacity and hours for gases), the total duration of excess emissions expressed as a percent of the total source operating time during that reporting period, and a breakdown of the total duration of excess emissions during the reporting period into those that are due to startup/shutdown, control equipment problems, process problems, other known causes, and other unknown causes;
 - (J) A CMS performance summary (or similar summary if the owner or operator monitors control system parameters), including the total CMS downtime during the reporting period (recorded in minutes for opacity and hours for gases), the total duration of CMS downtime expressed as a percent of the total source operating time during that reporting period, and a breakdown of the total CMS downtime during the reporting period into periods that are due to monitoring equipment malfunctions, nonmonitoring equipment malfunctions, quality assurance/quality control calibrations, other known causes, and other unknown causes;
 - (K) A description of any changes in CMS, processes, or controls since the last reporting period;
 - (L) The name, title, and signature of the responsible official who is certifying the accuracy of the report; and
 - (M) The date of the report.
- (vii) If the total duration of excess emissions or process or control system parameter exceedances for the reporting period is less than 1 percent of the total operating time for the reporting period, and CMS downtime for the reporting period is less than 5 percent of the total operating time for the reporting period, only the summary report shall be submitted, and the full excess emissions and continuous monitoring system performance report need not be submitted unless required by the Administrator.
- (viii) If the total duration of excess emissions or process or control system parameter exceedances for the reporting period is 1 percent or greater of the total operating time for the reporting period, or the total CMS

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downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, both the summary report and the excess emissions and continuous monitoring system performance report shall be submitted.

[40 CFR 63.10(e)]

(f) Waiver of recordkeeping or reporting requirements.

(1) Until a waiver of a recordkeeping or reporting requirement has been granted by the Administrator under this paragraph, the owner or operator of an affected source remains subject to the requirements of this section.

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(2) Recordkeeping or reporting requirements may be waived upon written application to the Administrator if, in the Administrator's judgment, the affected source is achieving the relevant standard(s), or the source is operating under an extension of compliance, or the owner or operator has requested an extension of compliance and the Administrator is still considering that request.

(3) If an application for a waiver of recordkeeping or reporting is made, the application shall accompany the request for an extension of compliance under [§ 63.6\(i\)](#), any required compliance progress report or compliance status report required under 40 CFR 63 [such as under § 63.6(i) and [§ 63.9\(h\)](#)] or in the source's title V permit, or an excess emissions and continuous monitoring system performance report required under paragraph (e) of this section, whichever is applicable. The application shall include whatever information the owner or operator considers useful to convince the Administrator that a waiver of recordkeeping or reporting is warranted.

(4) The Administrator will approve or deny a request for a waiver of recordkeeping or reporting requirements under this paragraph when he/she –

(i) Approves or denies an extension of compliance; or

(ii) Makes a determination of compliance following the submission of a required compliance status report or excess emissions and continuous monitoring systems performance report; or

(iii) Makes a determination of suitable progress towards compliance following the submission of a compliance progress report, whichever is applicable.

(5) A waiver of any recordkeeping or reporting requirement granted under this paragraph may be conditioned on other recordkeeping or reporting requirements deemed necessary by the Administrator.

(6) Approval of any waiver granted under this section shall not abrogate the Administrator's authority under the Act or in any way prohibit the Administrator from later canceling the waiver. The cancellation will be made only after notice is given to the owner or operator of the affected source.

[40 CFR 63.10(f)]

Addresses of State air pollution control agencies and EPA Regional Offices.

(a) All requests, reports, applications, submittals, and other communications to the Administrator pursuant to [40 CFR 63](#) shall be submitted to the appropriate Regional Office of the U.S. Environmental Protection Agency
EPA Region X (Alaska, Idaho, Oregon, Washington), Director, Office of Air Quality, 1200 Sixth Avenue (OAQ-107), Seattle, WA 98101.

[40 CFR 63.13(a)]

(b) All information required to be submitted to the Administrator under [40 CFR 63](#) also shall be submitted to the appropriate State agency of any State to which authority has been delegated under section 112(l) of the Act. The owner or operator of an affected source may contact the appropriate EPA Regional Office for the mailing addresses for those States whose delegation requests have been approved.

[40 CFR 63.13(b)]

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(c) If any State requires a submittal that contains all the information required in an application, notification, request, report, statement, or other communication required in [40 CFR 63](#), an owner or operator may send the appropriate Regional Office of the EPA a copy of that submittal to satisfy the requirements of [40 CFR 63](#) for that communication.

[40 CFR 63.13(c)]

Incorporation by Reference

(a) The materials listed in this section are incorporated by reference in the corresponding sections noted. These incorporations by reference were approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. These materials are incorporated as they exist on the date of the approval, and notice of any change in these materials will be published in the Federal Register. The materials are available for purchase at the corresponding addresses noted below.

[40 CFR 63.14(a)]

(b),(c),(d),(e),(f) Not applicable.

(g) The materials listed below are available for purchase from AOAC International, Customer Services, Suite 400, 2200 Wilson Boulevard, Arlington, Virginia, 22201-3301, Telephone (703)522-3032, Fax (703)522-5468.

(1) AOAC Official Method 978.01 Phosphorus (Total) in Fertilizers, Automated Method, Sixteenth edition, 1995, IBR approved for [§ 63.626\(d\)\(3\)\(vi\)](#).

(2) AOAC Official Method 969.02 Phosphorus (Total) in Fertilizers, Alkalimetric Quinolinium Molybdophosphate Method, Sixteenth edition, 1995, IBR approved for [§ 63.626\(d\)\(3\)\(vi\)](#).

(3) AOAC Official Method 962.02 Phosphorus (Total) in Fertilizers, Gravimetric Quinolinium Molybdophosphate Method, Sixteenth edition, 1995, IBR approved for [§ 63.626\(d\)\(3\)\(vi\)](#).

(4) AOAC Official Method 957.02 Phosphorus (Total) in Fertilizers, Preparation of Sample Solution, Sixteenth edition, 1995, IBR approved for [§ 63.626\(d\)\(3\)\(vi\)](#).

(5) AOAC Official Method 929.01 Sampling of Solid Fertilizers, Sixteenth edition, 1995, IBR approved for [§ 63.626\(d\)\(3\)\(vi\)](#).

(6) AOAC Official Method 929.02 Preparation of Fertilizer Sample, Sixteenth edition, 1995, IBR approved for [§ 63.626\(d\)\(3\)\(vi\)](#).

(7) AOAC Official Method 958.01 Phosphorus (Total) in Fertilizers, Spectrophotometric Molybdovanadophosphate Method, Sixteenth edition, 1995, IBR approved for [§ 63.626\(d\)\(3\)\(vi\)](#).

[40 CFR 63.14(g)]

(h) The materials listed below are available for purchase from The Association of Florida Phosphate Chemists, P.O. Box 1645, Bartow, Florida, 33830, Book of Methods Used and Adopted By The Association of Florida Phosphate Chemists, Seventh Edition 1991, IBR.

(1) Section IX, Methods of Analysis for Phosphate Rock, No. 1 Preparation of Sample, IBR approved for [§ 63.606\(c\)\(3\)\(ii\)](#) and [§ 63.626\(c\)\(3\)\(ii\)](#).

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(2) Section IX, Methods of Analysis for Phosphate Rock, No. 3 Phosphorus -- $P(2)O(5)$ or $Ca(3)(PO(4))(2)$, Method A-Volumetric Method, IBR approved for [§ 63.606\(c\)\(3\)\(ii\)](#) and [§ 63.626\(c\)\(3\)\(ii\)](#).

(3) Section IX, Methods of Analysis for Phosphate Rock, No. 3 Phosphorus- $P(2)O(5)$ or $Ca(3)(PO(4))(2)$, Method B -- Gravimetric Quimociac Method, IBR approved for [§ 63.606\(c\)\(3\)\(ii\)](#) and [§ 63.626\(c\)\(3\)\(ii\)](#).

(4) Section IX, Methods of Analysis For Phosphate Rock, No. 3 Phosphorus- $P(2)O(5)$ or $Ca(3)(PO(4))(2)$, Method C -- Spectrophotometric Method, IBR approved for [§ 63.606\(c\)\(3\)\(ii\)](#) and [§ 63.626\(c\)\(3\)\(ii\)](#).

(5) Section XI, Methods of Analysis for Phosphoric Acid, Superphosphate, Triple Superphosphate, and Ammonium Phosphates, No. 3 Total Phosphorus- $P(2)O(5)$, Method A -- Volumetric Method, IBR approved for [§ 63.606\(c\)\(3\)\(ii\)](#), [§ 63.626\(c\)\(3\)\(ii\)](#), and [§ 63.626\(d\)\(3\)\(v\)](#).

(6) Section XI, Methods of Analysis for Phosphoric Acid, Superphosphate, Triple Superphosphate, and Ammonium Phosphates, No. 3 Total Phosphorus- $P(2)O(5)$, Method B -- Gravimetric Quimociac Method, IBR approved for [§ 63.606\(c\)\(3\)\(ii\)](#), [§ 63.626\(c\)\(3\)\(ii\)](#), and [§ 63.626\(d\)\(3\)\(v\)](#).

(7) Section XI, Methods of Analysis for Phosphoric Acid, Superphosphate, Triple Superphosphate, and Ammonium Phosphates, No. 3 Total Phosphorus- $P(2)O(5)$, Method C -- Spectrophotometric Method, IBR approved for [§ 63.606\(c\)\(3\)\(ii\)](#), [§ 63.626\(c\)\(3\)\(ii\)](#), and [§ 63.626\(d\)\(3\)\(v\)](#).

[40 CFR 63.14(h)]

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Appendix B

40 CFR 60 Subpart A Requirements

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B.1 Address

(a) All requests, reports, applications, submittals, and other communications to the Administrator pursuant to 40 CFR 60 shall be submitted in duplicate to the appropriate Regional Office of the U.S. Environmental Protection Agency to the attention of the Director of the Division indicated in the following list of EPA Regional Offices. Region X (Alaska, Oregon, Idaho, Washington), Director, Air and Waste Management Division, U.S. Environmental Protection Agency, 1200 Sixth Avenue, Seattle, Washington 98101.

(b) Section 111(c) of the Clean Air Act directs the Administrator to delegate to each State, when appropriate, the authority to implement and enforce standards of performance for new stationary sources located in such State. All information required to be submitted to EPA under paragraph (a) of this section, must also be submitted to the appropriate State Agency of any State to which this authority has been delegated (provided, that each specific delegation may except sources from a certain Federal or State reporting requirement).

[40 CFR 60.4]

B.2 Notification and Recordkeeping

(a) Any owner or operator subject to the provisions of 40 CFR 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, as follows:

(1) A notification of the date construction (or reconstruction as defined under [§ 60.15](#)) of an affected facility is commenced postmarked no later than 30 days after such date. This requirement shall not apply in the case of mass-produced facilities which are purchased in completed form.

(2) (Reserved).

(3) A notification of the actual date of initial startup of an affected facility postmarked within 15 days after such date.

(4) A notification of any physical or operational change to an existing facility which may increase the emissions rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in [§ 60.14](#)(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emissions control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice.

(6) A notification of the anticipated date for conducting the opacity observations required by [§ 60.11](#)(e)(1) of [40 CFR 60](#). The notification shall also include, if appropriate, a request for the Administrator to provide a visible emissions reader during a performance test. The notification shall be postmarked not less than 30 days prior to such date.

(b) Any owner or operator subject to the provisions of [40 CFR 60](#) shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

(f) Any owner or operator subject to the provisions of [40 CFR 60](#) shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration

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checks; adjustments and maintenance performed on these systems or devices; and all other information required by [40 CFR 60](#) recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports, and records.

[40 CFR 60.7]

B.3 Performance Tests

(a) Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility and at such other times as may be required by the Administrator under section 114 of the Act, the owner or operator of such facility shall conduct performance test(s) and furnish the Administrator a written report of the results of such performance test(s).

(b) Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart unless the Administrator

(1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology,

(2) approves the use of an equivalent method,

(3) approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance,

(4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or

(5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in this paragraph shall be construed to abrogate the Administrator's authority to require testing under section 114 of the Act.

(c) Performance tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emissions limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emissions limit unless otherwise specified in the applicable standard.

(d) The owner or operator of an affected facility shall provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to have an observer present. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the owner or operator of an affected facility shall notify the Administrator (or delegated State or local agency) as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Administrator (or delegated State or local agency) by mutual agreement.

(e) The owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows:

(1) Sampling ports adequate for test methods applicable to such facility. This includes (i) constructing the air

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pollution control system such that volumetric flow rates and pollutant emissions rates can be accurately determined by applicable test methods and procedures and (ii) providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures.

(2) Safe sampling platform(s).

(3) Safe access to sampling platform(s).

(4) Utilities for sampling and testing equipment.

(f) Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs.

[40 CFR 60.8]

B.4 Compliance with Standards and Maintenance Requirements

(a) Compliance with standards in [40 CFR 60](#), other than opacity standards, shall be determined in accordance with performance tests established by [§ 60.8](#), unless otherwise specified in the applicable standard.

(b) Compliance with opacity standards in [40 CFR 60](#) shall be determined by conducting observations in accordance with Method 9 in [Appendix A of 40 CFR 60](#), any alternative method that is approved by the Administrator, or as provided in paragraph (e)(5) of this section. For purposes of determining initial compliance, the minimum total time of observations shall be 3 hours (30 6-minute averages) for the performance test or other set of observations (meaning those fugitive-type emissions sources subject only to an opacity standard).

(c) The opacity standards set forth in [40 CFR 60](#) shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard.

(d) At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(e)(1) For the purpose of demonstration initial compliance, opacity observations shall be conducted concurrently with the initial performance test required in [§ 60.8](#), unless one of the following conditions apply. If no performance test under [§ 60.8](#) is required, then opacity observations shall be conducted within 60 days after achieving the maximum production rate at which the affected facility will be operated but no later than 180 days after initial startup of the facility. If visibility or other conditions prevent the opacity observations from being conducted concurrently with the initial performance test required under [§ 60.8](#), the source owner or operator shall reschedule the opacity observations as soon after the initial performance test as possible, but not later than 30 days thereafter, and shall advise the Administrator of the rescheduled date. In these cases, the 30-day prior notification to the Administrator required in [§ 60.7\(a\)\(6\)](#) shall be waived. The rescheduled opacity observations shall be

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conducted (to the extent possible) under the same operating conditions that existed during the initial performance test conducted under [§ 60.8](#). The visible emissions observer shall determine whether visibility or other conditions prevent the opacity observations from being made concurrently with the initial performance test in accordance with procedures contained in Method 9 of [Appendix B of 40 CFR 60](#). Opacity readings of portions of plumes which contain condensed, uncombined water vapor shall not be used for purposes of determining compliance with opacity standards. The owner or operator of an affected facility shall make available, upon request by the Administrator, such records as may be necessary to determine the conditions under which the visual observations were made and shall provide evidence indicating proof of current visible observer emissions certification. Except as provided in paragraph (e)(5) of this section, the results of continuous monitoring by transmissometer which indicate that the opacity at the time visual observations were made was not in excess of the standard are probative but not conclusive evidence of the actual opacity of an emissions, provided that the source shall meet the burden of proving that the instrument used meets (at the time of the alleged violation) Performance Specification 1 in [Appendix B of 40 CFR 60](#), has been properly maintained and (at the time of the alleged violation) that the resulting data have not been altered in any way.

(2) Except as provided in paragraph (e)(3) of this section, the owner or operator of an affected facility to which an opacity standard in [40 CFR 60](#) applies shall conduct opacity observations in accordance with paragraph (b) of this section, shall record the opacity of emissions, and shall report to the Administrator the opacity results along with the results of the initial performance test required under [§ 60.8](#). The inability of an owner or operator to secure a visible emissions observer shall not be considered a reason for not conducting the opacity observations concurrent with the initial performance test.

(3) The owner or operator of an affected facility to which an opacity standard in [40 CFR 60](#) applies may request the Administrator to determine and to record the opacity of emissions from the affected facility during the initial performance test and at such times as may be required. The owner or operator of the affected facility shall report the opacity results. Any request to the Administrator to determine and to record the opacity of emissions from an affected facility shall be included in the notification required in [§ 60.7\(a\)\(6\)](#). If, for some reason, the Administrator cannot determine and record the opacity of emissions from the affected facility during the performance test, then the provisions of paragraph (e)(1) of this section shall apply.

(g) For the purpose of submitting compliance certifications or establishing whether or not a person has violated or is in violation of any standard in [40 CFR 60](#), nothing in [40 CFR 60](#) shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed.

[40 CFR 60.11]

B.5 Circumvention

No owner or operator subject to the provisions of [40 CFR 60](#) shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emissions which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

[40 CFR 60.12]

B.6 Modification

a) Except as provided under paragraphs (e) and (f) of this section, any physical or operational change to an existing facility which results in an increase in the emissions rate to the atmosphere of any pollutant to which a standard applies shall be considered a modification within the meaning of section 111 of the Act. Upon

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modification, an existing facility shall become an affected facility for each pollutant to which a standard applies and for which there is an increase in the emissions rate to the atmosphere.

(b) Emission rate shall be expressed as kg/hr of any pollutant discharged into the atmosphere for which a standard is applicable. The Administrator shall use the following to determine emissions rate:

(1) Emission factors as specified in the latest issue of "Compilation of Air Pollutant Emission Factors," EPA Publication No. AP42, or other emissions factors determined by the Administrator to be superior to AP42 emissions factors, in cases where utilization of emissions factors demonstrates that the emissions level resulting from the physical or operational change will either clearly increase or clearly not increase.

(2) Material balances, continuous monitor data, or manual emissions tests in cases where utilization of emissions factors as referenced in paragraph (b)(1) of this section does not demonstrate to the Administrator's satisfaction whether the emissions level resulting from the physical or operational change will either clearly increase or clearly not increase, or where an owner or operator demonstrates to the Administrator's satisfaction that there are reasonable grounds to dispute the result obtained by the Administrator utilizing emissions factors as referenced in paragraph (b)(1) of this section. When the emissions rate is based on results from manual emissions tests or continuous monitoring systems, the procedures specified in [Appendix C of 40 CFR 60](#) shall be used to determine whether an increase in emissions rate has occurred. Tests shall be conducted under such conditions as the Administrator shall specify to the owner or operator based on representative performance of the facility. At least three valid test runs must be conducted before and at least three after the physical or operational change. All operating parameters which may affect emissions must be held constant to the maximum feasible degree for all test runs.

(c) The addition of an affected facility to a stationary source as an expansion to that source or as a replacement for an existing facility shall not by itself bring within the applicability of [40 CFR 60](#) any other facility within that source.

(d) (Reserved).

(e) The following shall not, by themselves, be considered modifications under [40 CFR 60](#):

(1) Maintenance, repair, and replacement which the Administrator determines to be routine for a source category, subject to the provisions of paragraph (c) of this section and [§ 60.15](#).

(2) An increase in production rate of an existing facility, if that increase can be accomplished without a capital expenditure on that facility.

(3) An increase in the hours of operation.

(4) Use of an alternative fuel or raw material if, prior to the date any standard under [40 CFR 60](#) becomes applicable to that source type, as provided by [§ 60.1](#), the existing facility was designed to accommodate that alternative use. A facility shall be considered to be designed to accommodate an alternative fuel or raw material if that use could be accomplished under the facility's construction specifications as amended prior to the change. Conversion to coal required for energy considerations, as specified in section 111(a)(8) of the Act, shall not be considered a modification.

(5) The addition or use of any system or device whose primary function is the reduction of air pollutants, except when an emissions control system is removed or is replaced by a system which the Administrator determines to be less environmentally beneficial.

AIR QUALITY TIER I OPERATING PERMIT NUMBER: 005-00004

Permittee: Ash Grove Cement Co.
Location: Inkom, Idaho

Project No. T1-9508-132-1

Date Issued: December 17, 2002
Date Expires: December 17, 2007

The permittee is hereby allowed to operate the equipment described herein subject to all terms and conditions of the permit.

(6) The relocation or change in ownership of an existing facility.

(f) Special provisions set forth under an applicable subpart of 40 CFR 60 shall supersede any conflicting provisions of this section.

(g) Within 180 days of the completion of any physical or operational change subject to the control measures specified in paragraph (a) of this section, compliance with all applicable standards must be achieved.

[40 CFR 60.14]

Appendix C

PM Compliance Demonstration Plan

Appendix D

Water Spray Log

Appendix E

Dust Collector Maintenance Plan

Appendix F

Weekly Fugitive Emissions Inspection List

Appendix F, Weekly Fugitive Emission Inspection List

Permit Table	Source Codes to be inspected
3.1	Inclusive
4.1	Inclusive
5.1	F4, F5, F6
6.1	Inclusive
7.1	Inclusive
8.1	Inclusive
9.1	Inclusive
10.1	Inclusive
11.1	F43, F44, F47, F48
12.1	None
13.1	Inclusive
14.1	Inclusive
15.1	Inclusive
16.1	F88, F96, F97, F98-F107, F109
17.1	Inclusive
18.1	Inclusive

Appendix G

Weekly Visible Emissions Inspection List

Appendix G, Weekly Visible Emission Inspection List

Permit Table	Source Codes to be inspected
3.1	None
4.1	None
5.1	F7-F17, inclusive
6.1	None
7.1	None
8.1	None
9.1	None
10.1	Monthly 1-minute Method 22 observation of electrostatic precipitator structure, see Appendix C – PM Compliance Demonstration Plan
11.1	F45, F49, F50, F51, F52, F56, F57, F58, F59, F60, F62, F63, F64, F65, F65a
12.1	F66-F81
13.1	None
14.1	None
15.1	None
16.1	F82, F83, F84, F85, F87, F92, F93, F94, F95, F108
17.1	None
18.1	None
	Baghouses (1, 2, 3, 4, 6, 7, 8, 9, 10, 11) – Monitor in accordance with Dust Collector Maintenance Plan